

Founder & CEO at **Texas-Academy** | **Empowering the Next Generation of Developers & Communicators** | CTO at InterX | **We are a web3.0 consultancy agency**

Location: Austin, Texas | **Industry:** Education, Web Development, Professional Development

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PROFESSIONAL SUMMARY

I am a passionate entrepreneur and the founder of Texas-Academy, a cutting-edge online learning platform dedicated to equipping individuals with the skills they need to succeed in the fast-evolving tech world. At Texas-Academy, we specialize in providing high-quality courses and certifications in web development, blockchain, and communication skills. Our mission is to bridge the gap between technical expertise and effective communication, ensuring that our students excel both in coding and in navigating the professional world.

Before becoming an entrepreneur, I primarily worked as a **Computer Systems Analyst**, a role that shaped the foundation of my career. I've spent years analyzing user needs, designing tailored system solutions, and implementing data processing workflows that directly addressed organizational goals—well beyond the scope of pure programming. My focus has always been on understanding how systems interact with people and processes, and how technology can be harnessed to streamline and optimize those interactions.

This analytical mindset, along with a talent for bridging business objectives with technical execution, is what ultimately led me to launch Texas-Academy—even **before acquiring my TN visa** to work in the United States. My journey into entrepreneurship was not just driven by opportunity, but by a clear vision formed through years of experience designing systems that deliver measurable value.

With a deep understanding of the tech industry's demands, I've created a platform where students can build foundational and advanced skills in front-end development, back-end development, blockchain technology, and communication areas such as salary negotiation, conflict resolution, and effective communication. By combining these essential skill sets, we are empowering the next generation of developers to not only excel in coding but also thrive in their professional careers.

Our courses are designed to be hands-on, real-world applicable, and customizable to the needs of each student. Whether you're a beginner looking to get started in web development or a professional seeking to upskill in emerging technologies like blockchain, Texas-Academy is here to guide you on your journey.

I possess a broad range of technical and domain knowledge with over **20 years of experience in the IT industry**, dating back to the early days of Flash MX. My foundation in systems analysis has enabled me to see the bigger picture, understand the 'why' behind the code, and build learning pathways that go beyond syntax—helping students understand how to think critically and build impactful digital solutions.

TECHNICAL SKILLS

Backend:	JAVA Spring Boot, .NET , Node and Python
Frontend:	TypeScript, Angular 19, React 18, Ionic, HTML5, SASS, Vue.js ,
Cloud Computing:	AWS S3, EC2, Lambda
Databases:	SQL (PostgreSQL, MySQL)
Business Intelligence:	Tableau and PowerBI.
DevOps tools:	CI/CD pipelines , and Kubernetes
Methodologies:	User Centered Software Engineering and User Centered Design, Agile/Scrum.

PROFESSIONAL EXPERIENCE

Founder & CEO

Texas-Academy | *Austin, Texas*

April 2025 – Present

As the visionary founder of **Texas-Academy**, I lead a dynamic team of educators, tech innovators, and industry leaders dedicated to shaping the future of digital education. We design and deliver **world-class online courses** that blend cutting-edge **technical development** with essential **professional communication skills**, ensuring our students are fully equipped for the evolving tech landscape.

Our prestigious **certifications** are securely stored on **Ethereum's Blockchain**, providing verifiable, tamper-proof credentials that set our graduates apart in the global job market. Moreover, students can **immerse themselves in our state-of-the-art Metaverse classroom**, where interactive, hands-on learning transcends traditional education, creating an unparalleled virtual experience.

Key Responsibilities:

- Developing and overseeing course curriculum focused on front-end and back-end web development, blockchain, and communication skills.
Partnering with industry leaders to ensure that the content remains relevant, up-to-date, and aligned with current tech industry needs.
- Mentoring students and professionals, guiding them through the course material and offering personalized career advice.
- Creating partnerships with tech companies and corporations to provide job placement and internship opportunities for our students.
- Continuously expanding the range of courses offered to meet the evolving needs of the workforce.

Chief of Technology

January - June 2025

Description: Prior to founding Texas-Academy, I founded Inter-X, a web development agency where we specialized in creating custom websites and solutions for startups, SMBs, and large corporations. My experience working directly with clients helped me identify the gap in technical and soft skills training, which ultimately led to the creation of Texas-Academy.

Responsibilities

- Assign and review the work of systems analysts, programmers, and other computer-related professionals.
- Purchase necessary equipment
- Stay abreast of advances in technology
- Review project plans to plan and coordinate project activity.
- Meet with department heads, managers, supervisors to resolve problems
- Provide user with technical support for coding assignments
- Recruit, hire, train and supervise staff

Founder & FullStack Developer

October 2005 - December 2024

Description: Developing multi touch applications, e-learning, video games and interactive websites

Responsibilities

- As a FullStack developer at this company, I have been involved in several projects related to e-learning in private and public universities and private companies.
- I have also developed pharmacoeconomics applications for recognized laboratories where economical and financial concepts were important to understand client requirements.
- In the tourism industry I have developed email marketing campaigns and also multitouch applications.
- Another important achievement was related with video game development using actionscript 2.0 and 3.0, php on the backend.

Technical Platform:

Photoshop, Figma, HTML5, CSS3, JQuery, as3, JavaScript, PHP, Angular, React, Vue, NET, Python, Ethereum - Solidity, ThreeJS

Texas Health and Human Services Commission through Inter-X

August 2024 - June 2025

UI Digital Architect .NET Developer

Description: In this hybrid role, I operate at the intersection of software engineering and systems analysis, designing and building scalable healthcare-focused web applications within a micro frontend architecture managed through a monorepository. My primary responsibilities include:

Responsibilities

- Analyzing business and user requirements to design end-to-end solutions that align with institutional workflows and regulatory standards in the Texas healthcare sector.

- Designing system architecture to support multiple micro frontend applications under a unified wrapper, ensuring modularity, maintainability, and seamless user experience across all modules.
- Implementing user account management systems, allowing individuals to register, authenticate, and manage personal profile data securely within HIPAA-compliant parameters.
- Leading the integration of healthcare admission workflows, enabling institutions to admit patients and assign them to specific funders or healthcare programs, while maintaining accurate records of eligibility and services.
- Architecting and developing micro front-end solutions using Angular 18 within a monorepository environment.
- Defining and implementing scalable UI patterns, design systems, and reusable component libraries.
- Consuming and integrating RESTful APIs with a focus on performance, security, and maintainability.
- Translating complex business and UX requirements into UI architecture and design strategies.
- Leading production deployments, performance tuning, and ongoing system optimization.
- Participating in code reviews, UI governance, and cross-team architectural alignment to ensure consistency and quality across all micro front-end applications.
- Collaborating with DevOps teams to optimize CI/CD pipelines, Dockerized environments, and AWS deployments.

Technical Platform:

.NET, Angular, Node, Typescript (MEAN), JavaScript, Bootstrap, Sass, Web services development and API consumption. Docker, Jenkins, Github, AWS.

Capital One

March - July 2024

FullStack Developer

Description: In this role, I contribute as an Angular developer within a highly structured monorepository environment, responsible for building a unified UI solution that integrates multiple business units into a cohesive digital experience. My responsibilities extend beyond frontend development to include key duties as a Computer Systems Analyst, such as:

Responsibilities:

- Analyzing user and stakeholder requirements across business units to design scalable UI components that serve diverse operational needs while maintaining consistency in user experience.
- Evaluating and mapping existing business processes, identifying inefficiencies, and translating those insights into technical requirements and system features within the Angular framework. Collaborating closely with cross-functional teams to ensure each module aligns with broader business objectives and can be efficiently integrated into the centralized monorepository architecture.
- Designing system workflows that facilitate seamless data interaction between front-end interfaces and backend services, optimizing performance and maintainability.
- Leading the implementation of advanced analytics dashboards, integrating data from multiple third-party vendors to deliver real-time business insights and support decision-making processes.
- Coordinating with data architects and backend teams to ensure data accuracy, integrity, and proper visualization within the analytics modules.
- Ensuring scalability and long-term usability of the system by applying architectural best practices in both development and systems analysis.
- Communicate design ideas and prototypes to developers
- Responsible to find **creative** ways to solve UX problems related with usability and findability

- UI-FrontEnd specialist developing **Angular 17**
- Writing maintainable code with extensive test coverage using **Jest** on the frontend
- Angular api consumption

Technical Platform:

Nx, Typescript, JavaScript, .Net, Angular 17, Jest, Karma, Sass, API consumption. Docker, Jenkins, Github,

Texas Military Department

April 2023 - February 2024

FullStack Developer

Description: In this role, I developed and enhanced modules within an existing Angular 14 application used by the Texas Military Department, focusing on both technical implementation and system-level analysis. My responsibilities combined software development with key Computer Systems Analyst duties, including:

Responsibilities

Designed and implemented a dynamic permissions module that controls user access based on request workflows and authorization levels, enabling differentiated routing paths depending on user roles and security clearance. Analyzed user roles, access policies, and institutional protocols to translate complex security requirements into a clear, maintainable access control architecture.

Worked directly with stakeholders to gather functional requirements and assess system gaps, ensuring that the new permissions feature aligned with both technical constraints and organizational accountability standards.

Contributed to UI improvements and bug fixes that enhanced the usability and reliability of key administrative tools, supporting the department's efforts to manage personnel and financial accountability efficiently.

Mapped and documented system workflows, ensuring that business logic was accurately reflected in the application's architecture and that new features could scale with evolving organizational needs.

Collaborated with cross-functional teams, including QA and backend developers, to validate data flows and ensure consistent behavior across permission-controlled routes and user administration screens.

This role required not only technical proficiency in Angular but also a deep understanding of user needs, system security policies, and process alignment—core competencies of a Computer Systems Analyst working in a highly structured governmental environment.

Responsible to find **creative** ways to solve UX problems related with usability and findability

UI-FrontEnd specialist developing **Angular 14** and consuming .net API's

Write maintainable code with extensive test coverage using **Jest** on the frontend and **Chai** on the node backend

Backend development was performed in **.NET**

Technical Platform:

Node, Typescript, JavaScript, .Net, Angular 14, Primeng, Sass, Web services development and API consumption. Docker, Jenkins, Github, AZURE.

Capital One, Texas

September 2022 - April 2023

FullStack Developer

Description: As a Fullstack Developer on a project focused on building a Bulk Mail System for credit card product distribution, I was responsible for designing and implementing both frontend and backend components while also fulfilling key Computer Systems Analyst functions. My role included:

Responsibilities:

- Analyzed business rules and user requirements to define system logic for selecting beneficiaries, filtering products by date range, and managing campaign configurations.
- Designed a scalable frontend architecture, ensuring the UI could support evolving product definitions, user workflows, and bulk processing features, with special focus on scalability, operability, maintainability, and ease of deployment.
- Developed dynamic interfaces that allowed users to define products, specify eligible date ranges, and manage target beneficiary groups through a streamlined, user-centric workflow.
- Performed systems analysis to model data flows, identify integration points, and design solutions that align technical implementation with operational objectives and user needs.
- Developed backend API services using Java Spring Boot, supporting core operations such as product definition, beneficiary validation, and mail batch generation.
- Collaborated with stakeholders to gather detailed functional and technical requirements, ensuring the system addressed regulatory, marketing, and operational expectation
- Worked on optimizing data handling and processing for high-volume bulk operations while maintaining system responsiveness and reliability
- Communicate design ideas and prototypes to developers
- Responsible to find **creative** ways to solve UX problems related with usability and findability
- UI-FrontEnd specialist developing through **Empath framework** and using latest improvements related with **VUE 3** and **Connex UI** framework.

Technical Platform:

Node, Typescript, JavaScript, Python, Java, Vue 3, React, Bootstrap, Sass, Web services development and API consumption. Docker, Jenkins, Github, AWS.

The Janssen Pharmaceutical Companies, New Jersey January 2022 - September 2022

FullStack Developer

Description: My achievement is related to customizing graphical reports using javascript and css. Another achievement is related with AI tool APIs consumption in our react application that allows us to analyze and process genetic data.

I worked closely with researchers and scientists to understand their requirements and translate them into functional programs. Some of the key responsibilities and accomplishments in this role include:

1. DNA Data Analysis: I designed and implemented Python scripts and algorithms to analyze DNA sequencing data. This involved processing large datasets, performing statistical analysis, and identifying patterns and mutations within the genetic code.
2. Data Visualization: I developed interactive data visualization tools using libraries like Matplotlib and Plotly. These visualizations helped researchers explore and interpret complex genetic data, facilitating better insights and discoveries.
3. Integration with Bioinformatics Tools: I collaborated with bioinformatics experts to integrate our software with existing bioinformatics pipelines and tools.
4. Algorithm Optimization: I optimized existing algorithms and implemented new ones to enhance the performance and accuracy of DNA analysis.

Responsibilities

- Communicate design ideas and prototypes to managers
- Responsible to find **creative** ways to solve UX problems related with usability and findability
- UI-FrontEnd specialist developing on react environment
- Backend development related with microservices using **Python**
- Deployment process related with **Docker, Jenkins** and **Github**
- CI/CD using cloud native stack, build on **AWS**

Technical Platform:

Node, Typescript, JavaScript, Python, Jupyter Note Books, React, Bootstrap, Sass, Web services development and API consumption. Docker, Jenkins, Github, AWS.

Bang Energy, Miami

November 2021 - June 2022

FullStack Developer

Description: Salesforce Development under Salesforce Commerce Cloud for a recognized beverage company that needed to automate their marketing efforts through building their next website generation. With this improvement the marketing team is able to schedule, maintain and design campaigns. As a specialist in frontEnd development I provided responsive, pixel perfect solutions and also specific salesforce development for their management system.

Responsibilities

- Communicate design ideas and prototypes to developers
- Responsible to find creative ways to solve UX problems related with usability and findability
- UI-FrontEnd specialist developing responsive and pixel perfect solutions
- Develop backend code related with microservices using Salesforce

Technical Platform:

SalesForce Commerce Cloud, Apex, React, JavaScript, Bootstrap, Sass

Wisconsin Department of Health Services

April - November 2021

Full Stack Developer

We developed a system for the Wisconsin Department of Health Services related to providing and managing health benefits for individuals and families. As a FullStack Developer with experience on the Salesforce Lightning Design System (SLDS) I was able to create custom and general modules as well as responsive components for mobile and desktop devices. I'm very experienced with pixel perfect development and using Angular frontend framework. Able to test using Jasmine, Karma and finally continuous development using Docker and Jenkins

Skills: Sales Force Development, Angular, pixel perfect, API Development

Responsibilities

- Communicate design ideas and prototypes to developers
- Responsible to find creative ways to solve UX problems related with usability and findability
- UI-FrontEnd team leader developer writing maintainable code with extensive test coverage using Jasmine and Karma on the frontend

- Salesforce development (SLDS)
- Deployment process related with Docker, Jenkins and Github
- Participates in all Agile ceremonies, including Sprint Planning, SCRUM, and Retrospectives

Best Buy, Minneapolis & Capital One in Texas through Wipro

March 2019 - April 2021

Digital Architect

Description: In Minneapolis Best Buy developed a project related to Supply Chain and I provided a solid front-end architecture (Angular 12) and also I gave some guidance about how API payloads should be provided when developing under Spring Boot framework.

In Texas, when working with Capital One there was an auto loans application where my responsibility was to code under Angular framework the authentication module (AIM) and to develop some modules related with statistics about auto loans. This datasets consumption was coming from Python backend

Responsibilities

- Communicate design ideas and prototypes to developers
- Responsible to find creative ways to solve UX problems related with usability and findability
- UI-FrontEnd team leader developer and data scientist for Capital One analyzing datasets in order to create reports for decision makers.
- Write maintainable code with extensive test coverage using Jasmine and Karma on the frontend
- Estimate engineering efforts in order to estimate realistic schedules and plans using agile methodology
- Coordinate with backend team API consumption requirements
- Deployment process related with Docker, Jenkins and Github
- Develop backend code related with microservices using JAVA and Spring Boot
- Develop backend code related with datasets using Python
- CI/CD using cloud native stack, build on AWS
- I performed as Digital architect and supply chain team leader at Bestbuy with the project: Open Box project.
- Participates in all Agile ceremonies, including Sprint Planning, SCRUM, and Retrospectives

Technical Platform:

Phyton, Java, Angular, React, Node, Typescript (MEAN), JavaScript, Bootstrap, Sass, Web services development and API consumption. Docker, Jenkins, Github, AWS.

CVS, Pittsburgh

January - December 2018

FrontEnd team leader, FullStack Developer

Description: As a part of a great team of 60 developers on site and offshore (India) 24/7 under agile methodology we developed a system that provides medicines to patients in order to satisfy their demands as fast as possible, this kind of medicine has a high cost to terminal diseases.

Responsibilities

- Frontend architecture definition using Angular 6
- Wireframe development using Axure
- Code development of components and services

- Collaborate with and across Agile teams to design, develop, test, implement, and support technical solutions in full-stack development tools and technologies
- Coordinate of a team of 60 developers on site and offshore (India) 24/7 under agile methodology.
- Development of supply chain application for CVS Pharmacy in order to satisfy the increasing demand of medicine in retail branch
- Participates in all Agile ceremonies, including Sprint Planning, SCRUM, and Retrospectives

Technical Platform:

.NET, Angular 6, Node, Typescript, Ionic, JavaScript, Bootstrap, Sass, API Development and consumption

Ericsson, Silicon Valley

September 2017 - January 2018

FrontEnd team leader, FullStack Developer

Description: Unified Development Network. Reactive web application related with ticket control and issue rate solving on the **UDN** with a clean and maintainable use of components across the application so it can perform fast and in a responsive way.

Responsibilities

- Coordinate of requests directly from the business department under an agile methodology and development of responsive web applications related with UDN (Unified Development Network).
- Code, test and analyze application software.
- Improve existing code to ensure optimal functionality between components
- Interpret wireframes and designs, translating them into quality code
- Participates in all Agile ceremonies, including Sprint Planning, SCRUM, and Retrospectives

Technical Platform:

Java, React, Node, Typescript, Lodash, JavaScript, Bootstrap, Css3, Web services and Amazon Web Services

Live Oak Bank, North Carolina

February 2017 - September 2017

FullStack Developer

Description: Create deposit and loan projects in Salesforce. Improved the user experience by 25%. . Used React as a front-end framework and followed the MVC patterns to consume AWS web services. Backend using Apex.

Responsibilities

- Developing deposit-and-loan projects in Salesforce to create an amazing user experience, using Angular as a front-End framework and following MVC patterns to consume web services from AWS. Backend using Apex

Technical Platform:

Java, Angular, JavaScript, Css3, Web services and Amazon Web Services.

SAP Montreal, Canada

September 2016 – January 2017

SAPUI5 Front-end Developer

Description: Enhanced the locomotive maintenance sector +20%. Developed an application that solves the locomotive assignments for the maintenance shop, defines when it will be repaired, by whom and records all repair costs to be used.

Responsibilities

- Locomotives application, using MVC pattern and sapui5 framework to collaborate with an international team (Canada, USA, México, India) that's working 24/7.
- Write well-documented code and follow established practices and coding standards
- Create and maintain software documentation
- Participates in all Agile ceremonies, including Sprint Planning, SCRUM, and Retrospectives.

Technical Platform:

SAPUI5, HTML5, JavaScript, Java, CSS3, Git, Web Services consumption.

IBM, Banorte in Mexico City

January 2014 – December 2014

UX Front-End Developer

Description: Create two online banks in record time using CSS precompilers, under an innovative framework of Chinese origin (Dojo), the new application was connected to Banorte's production environment. Backend development.

Responsibilities

- Take requirements from business directors and accept challenges like releasing systems on an aggressive deadline
- Design a technical solution that enables to deploy two banking sites on a single effort using CSS precompilers
- Coordinate onsite frontend team and update progress with offshore team
- Guide the work team in the configuration of CSS styles at an advanced level and in the use of the Dojo Framework

Technical Platform:

Rational Application Developer for Web Sphere, HTML5, Dojo, CSS, .less, JavaScript.

Languages: Spanish (native), English, French

EDUCATION AND CERTIFICATION

- | | |
|---|--------------|
| • Real Estate License, Collin College | Plano, Texas |
| • Angular Certification by testDome | Online |
| • Bachelor of Economics by UNAM | Mexico City |
| • PHP Programming Language by D.G.S.C.A. UNAM | Mexico City |
| • Hackathon: EarthX Mexico - Third place prize: Agriculture Project | Mexico City |

Licenses & Certifications

- **Certified Angular And Typescript Developer** – Test-Dome
- **Certified Blockchain Developer** – Blockchain Council
- **Certified Professional Communication Coach** – Ministry of Labor and Social Welfare in México

Volunteer Experience

Mentor - Abracalibro

June 2017 – Present

As a mentor for **Abracalibro**, I provide guidance to low-income students pursuing careers in tech, offering career advice, web development support, and communication strategies to help them succeed in their professional journeys.

Recommendations

Kirti Snigdha, Data Scientist, Ph.D. Cancer genetics

"I worked with Jacob for a year. He is a very dedicated, sincere person. He spent time understanding the requirements of the project, took detailed notes regarding the next action and gave timely progress reports. He is a very creative person too which I noticed during the UI designing and development. Overall, I have found working with Jacob a pleasant experience. He is easy to get along with, friendly, pushes through during crunch times and tackles difficult tasks with ease. He will be a great addition to any team."

Israel Escobedo, MBA

Project Manager/ PMO | SCRUM Master

"Jacob is the kind of person that makes the difference in a corporation, besides I can bear out the wide knowledge on web technologies like Angular, Php and Java, he has a born talent as a developer, like solving code problems and analytical. On the other hand, he is an easygoing person with a great attitude. Definitely I widely recommend him"

Surya Jayanti, Lead Java Developer

"It is rare to come across talent like Jacob. I have had chance to work with Jacob on multiple projects. He is an expert when it comes to client requirement analysis. He can handle toughest clients effortlessly explaining them, requirement feasibility and excels in rapid development environment. Jacob's work has made complex implementations look so small and his insight into project design and overall domain knowledge makes him a great asset and a great leader to any team."

Salvador Rios L., Web Developer.

"Jacob's passion for both web development and communication has been evident in every project he's been a part of. His ability to teach and mentor others is unmatched. As a student of Texas-Academy, I gained not only the coding skills I needed but also the communication skills to confidently negotiate my salary and handle workplace conflicts. His approach is holistic and deeply effective." –.