

Roel Trevino, Senior Software Engineer

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PROFILE

I am a highly skilled full-stack developer with 8+ years of hands-on experience, specializing in React, Node.js, Python, and AWS. I thrive in building scalable, high-performance applications that prioritize both user experience and technical excellence. My strong background in front-end and back-end development allows me to craft solutions that are not only efficient but also user-friendly, ensuring smooth and intuitive interactions while maintaining solid code quality.

EMPLOYMENT HISTORY

Sep 2021 — Dec 2024

Senior Software Engineer, Sounding Board

- Utilized GraphQL to efficiently manage data requests and responses, developed a robust and scalable API layer using Express.js.
- Implemented a scalable group coaching web application using React and TypeScript, integrating Twilio APIs for real-time video conferencing, chat, and notifications to enhance user engagement and communication.
- Designed advanced caching mechanisms using Express.js and GraphQL that significantly reduced the response time of critical API endpoints and enhanced the overall system performance.
- Implemented impressive UI/UX designs using React.js and Material-UI, creating an intuitive and engaging user experience.
- Implemented reusable component design patterns using React.js and TypeScript that improve code readability and maintainability.
- Utilized Playwright and Cypress for E2E testing for high-quality code and seamless user experiences across multiple platforms.
- Focused on delivering qualified code by writing tests (unit + integration) always.

Apr 2019 — Mar 2021

Software Engineer, The Silicon Partners

- Created a real-time data visualization platform with React.js and TypeScript, utilizing Highcharts and D3 for advanced visualizations and WebSocket for seamless real-time data transfer.
- Designed and optimized OMERS landing pages using Contentful for the backend and React.js (TypeScript) for the frontend, improving performance and demonstrating expertise in Contentful architecture.
- Developed a React-based single-page application (SPA) integrating Web3 to enable innovative crypto swap functionality, supporting one-to-many and many-to-one exchanges.
- Designed fully scalable & stable architecture for the world-first iNFT platform on AWS with React.js and NestJS in TypeScript, integrated Machine Learning models with Blockchain technology to create iNFT characters.
- Responsible for MLOps to leverage ML models for Websites using Python, Flask, AWS EC2, S3, SQS, and SNS.
- Implemented end-to-end testing using Cypress and Jest, ensuring robust test coverage and reducing production bugs by 30%.
- Actively participated in Agile development cycles, contributing to sprint planning, daily stand-ups, and retrospectives to ensure timely delivery of features.
- Collaborated with QA teams to develop and execute automated test scripts, improving the overall quality and reliability of the product.

Mar 2017 — Feb 2019

Web Developer, TopTal

- Developed and maintained an online invoicing platform with millions of invoices and transactions and communication.
- Designed and delivered the business process of collecting payments and distributing funds to sellers using Stripe Connect.
- Tested and gradually refactored a task scheduling system.
- Improved code quality by introducing test-driven development and a culture of conducting regular code-reviews by the team.
- Built a video conference mobile application with React Native, TypeScript, Redux, and the Twilio API with Python for the REST API.
- Created a web-based admin panel to track devices, transfer files, and ring devices remotely.
- Developed a web-based super admin panel to manage users and subscriptions, and track usage statistics.

EDUCATION

2017 — 2019 Master's degree in Information Technology, Texas Tech University

2013 — 2017 Bachelor's degree in Computer Science, Texas Tech University

SKILLS	React	Expert	Kubernetes	Skillful
	Node.js	Expert	Material-UI	Expert
	Python	Expert	TailwindCSS	Experienced
	JavaScript	Expert	Playwright	Experienced
	TypeScript	Expert	Cypress	Experienced
	React Native	Skillful	Swagger	Experienced
	Next.js	Experienced	Git	Expert
	Express	Expert	PostgreSQL	Experienced
	Django	Experienced	MySQL	Experienced
	Flask	Skillful	MongoDB	Experienced
	NestJS	Experienced	Snowflake	Skillful
	Apollo	Skillful	Kafka	Experienced
	GraphQL	Experienced	WebSocket	Experienced
	Redux	Experienced	Prometheus	Skillful
	React Query	Expert	Grafana	Skillful
	Styled-Components	Expert	Datadog	Skillful
	AWS	Expert	Web3	Skillful
	Docker	Skillful	Blockchain	Skillful

HOBBIES Basketball, Learning, MindMap