Osvaldo Restrepo

FULL STACK DEVELOPER & APPLIED AI ENGINEER

bugfreewaldo@gmail.com ✉
PA: +50769331283 | US: +1 (512) 487-7645 ☎
Chiriquí, Panamá ⊚

SUMMARY

Full Stack Engineer & Applied AI Developer with 8+ years of experience designing scalable applications, automating workflows, and implementing AI tools to streamline development. Skilled in technologies like React, Node.js, NestJS, PostgreSQL, DynamoDB, and AWS Lambda. Proven ability to work across the full software development lifecycle, lead technical decisions, and deliver impactful solutions. Experienced in integrating tools like GitHub Copilot, Claude, and Zapier for efficiency and innovation.

PROFESSIONAL EXPERIENCE

LEAD FULL STACK & APPLIED AI ENGINEER
Shining Image of Texas, Inc.

Austin, Texas | Remote
May 2022 - Present

- Spearheaded the architectural redesign of the appointment booking system, optimizing it for scalability using a Node.js (NestJS) backend, React Native frontend, and AWS Lambda functions.
- Led the development of a self-hosted AI voice agent platform using tools like Whisper, GPT, and Twilio Programmable Voice for appointment scheduling and customer support.
- Designed and implemented containerized microservices with Docker, deployed via GitHub Actions CI/CD pipelines to AWS.
- Integrated Fieldd with Stripe, QuickBooks, and SMS automation to reduce manual operations by 85%.
- Drove adoption of GitHub Copilot and Claude for rapid prototyping, contributing to a 40% faster delivery cycle.
- Mentored junior developers and oversaw code quality, ensuring test coverage with Jest and API documentation with Swagger.

AI SOLUTIONS DEVELOPER
Shining Image of Texas, Inc.

Austin, Texas | Remote
Jan 2020 - Apr 2022

- Designed AI-based task automation workflows using GPT-3.5/4 to power backend logic, such as call summaries, invoice creation, and smart replies.
- Implemented intelligent routing for phone calls based on voice input and NLP using Whisper + GPT.
- Developed internal tools to automate Stripe fee processing and QuickBooks reconciliation using Zapier, webhooks, and custom Node.js scripts.
- Contributed to the early version of the AI voice agent by connecting a local STT/TTS pipeline to a Node backend using websockets.
- Used DynamoDB and PostgreSQL (via RDS) depending on the feature, optimizing access patterns and reducing read latency.

FULL STACK DEVELOPER
Shining Image of Texas, Inc.

Austin, Texas | Onsite
May 2017 - Dec 2019

- Built the company's core service platform from scratch using React for the frontend and Express/Node.js for the backend.
- Implemented the first version of customer scheduling using Cozi, later migrating to a custom-built system.
- Connected the platform to third-party APIs (Google Calendar, QuickBooks, Stripe) and ensured robust error handling.
- Designed and modified relational schemas in PostgreSQL to accommodate service tiers, customer feedback, and technician assignments.
- Wrote extensive test coverage using Mocha/Chai before transitioning to Jest.

SKILLS, TOOLS AND TECHNOLOGIES

- **Languages**: JavaScript (React, Node.js), TypeScript, Python, HTML5, CSS3, Bash, SQL, JSON
- **Databases**: PostgreSQL, MongoDB, DynamoDB, MySQL, Redis, SQLite
- **Infrastructure**: AWS (Lambda, API Gateway, RDS, EC2, S3, CloudWatch, IAM), Docker, Kubernetes (basic), GitHub Actions, Terraform (basic), Netlify, Vercel, Nginx, PM2
- **AI & Automation:** OpenAI (GPT-3.5/4), Claude, Whisper, GitHub Copilot, ElevenLabs, Zapier, LangChain, Twilio Programmable Voice, STT/TTS engines, Custom Webhooks, AI Prompt Engineering, Voiceflow, Browser Automations (Puppeteer/Playwright)
- **Frontend Frameworks and Tools:** React, React Native, Next.js, Expo CLI, Tailwind CSS, Bootstrap, Material UI, Redux, React Hook Form
- **Backend Frameworks and Tools:** Node.js, NestJS, Express.js, REST APIs, WebSockets, JWT Auth, Bcrypt, Stripe SDK, QuickBooks API, File Uploads (Multer, AWS S3).
- **Testing & Documentation**: Jest, Mocha, Chai, Postman, Swagger/OpenAPI, Supertest, Mutation Testing (Stryker), Code Coverage (nyc), ESLint, Prettier.
- **Project and Process Management**: Nx Monorepos, CI/CD pipelines, Git, GitHub, GitLab, Jira, Confluence, Scrum, Kanban, Agile, Notion, Miro, DA, LEAN, DevOps
- **Tools**: Git, GitHub, Confluence, Contentful

LANGUAGES

- **English:** Native
- **Spanish:** Native

FORMATION AND CERTIFICATIONS

MSC IN APPLIED AI ENGINEERING
Tecnológico de Monterrey - Grad. expected 2027

MSC IN COMPUTER SCIENCE
University of Southern California - Grad. expected 2026

MSC IN SOFTWARE ENGINEERING
Universidad Tecnológica de Panamá - 2025

MSC IN HIGHER EDUCATION
Universidad Latina de Panamá - 2022

ASSOCIATE'S IN PEDAGOGY
IDESCA Panamá - 2021

ASSOCIATE'S IN TECHNOLOGY RESEARCH
IDESCA Panamá - 2021

BSC COMPUTER SCIENCE
Universidad Latina de Panamá - 2020

BSC COMPUTER SCIENCE
Universidad Tecnológica de Panamá - 2020