Ruben Christopher Arevalo

McAllen, Texas | ruben.c.arevalo@gmail.com | linkedin.com/in/rchrisarevalo | github.com/rchrisarevalo

SUMMARY

Software engineer specializing in full-stack development with Python, TypeScript, React, and Next.js. Proficient with database technologies such as MySQL, PostgreSQL, and Firebase, to build scalable, production-ready systems and applications. Focused on delivering and improving new and existing solutions, including AI-powered integrations, to solve real-world problems.

RELEVANT EXPERIENCE

Del Valle Pest Control, *Software Developer (Programmer)* | Edinburg, Texas | *February 2025 - Present*
- Design and maintain a vehicle maintenance program to track upcoming jobs and streamline gas receipt management, improving organization by ~5-10%.
- Coordinated with a team of 3 to develop a Python prototype that improves inventory quantity tracking.
- Mentored 2+ new software developers, providing guidance, insights, and tips to improve team productivity and the development process.

Headstarter AI, *Software Engineer Fellow* | Remote | *July 2024 - September 2024*
- Built and deployed 5 AI projects using React, Next.js, Firebase, Clerk, and Vercel, incorporating CI/CD pipelines to catch regressions that improved system reliability.
- Led a team of 3 to build and deploy a SaaS product that generates flashcards from a given topic using the OpenAI API, giving users the option to instantly generate a study plan.
- Implemented a RAG-based information retrieval system with a team of 3 using the OpenAI API and Pinecone, improving response accuracy based on a customized dataset.

EDUCATION

University of Texas Rio Grande Valley | Edinburg, Texas | *August 2019 - May 2023*
Bachelor of Science in Computer Engineering

South Texas College | McAllen, Texas | *August 2015 - May 2019*
Associate of Science in Computer Science

SKILLS

Programming Languages: Python, C++, PHP, JavaScript, TypeScript, SQL

Web Development: React.js, Next.js, Flask, FastAPI, Express.js, CSS, HTML

Databases: MySQL, PostgreSQL, Cloud Firestore

Cloud / DevOps: CI/CD, Git, AWS (Lambda, S3)

Software Development: SDLC, Agile development, unit testing, integration testing

Tools / Project Management: GitHub, Jira

Soft Skills: Leadership, Team Collaboration, Mentoring

PROJECTS

IncludiTrip | *August 2024 - September 2024*
- Developed a travel web application with a team of 3, generating suggested destinations for people with disabilities.
- Constructed a feature for users to enter travel dates, budget range ($0-$5000+), and location to personalize suggestions.
- Integrated Groq API to provide travel destination/hotel suggestions and a list of accessibility resources.

BrainflashAI | *August 2024*
- Collaborated with 3+ team members to develop and deploy an AI flashcard application.
- Led front-end design using Next.js and TypeScript with client-side API fetching to display content.
- Engineered subscription-based workflows via the Stripe API and Next.js API routes, implementing feature gating for premium users to access expanded character/flashcard limits.

FoodPantryInventory | *July 2024 - August 2024*
- Designed a pantry item tracker application with Next.js, Firebase, and TypeScript, with 3+ users registered.
- Created a feature that allows users to track and update pantry item quantities–for instance, 5+ pieces of salmon.
- Generated 5 recommended recipes using the OpenAI API based on the items currently stored in a user's pantry.