Ruben Christopher Arevalo

Aspiring Software Developer

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EDUCATION

University of Texas Rio Grande Valley | Edinburg, Texas | *August 2019 - May 2023*
Bachelor of Science in Computer Engineering
Relevant Coursework: Senior Design 1 & 2, Database Design & Implementation, Algorithms & Data Structures, Software Engineering 1 & 2

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

EXPERIENCE

Self-Employed, *Independent Software Developer* | McAllen, Texas | *May 2023 - Present*
- Undertaking self-directed projects, including the development 2 web applications, such as a restaurant website prototype.
- Investing 25 hours/week on average refining knowledge in software development, using best practices, and learning new technologies.
- Debugging and optimizing current projects using strategies such as code refactoring and run time analysis.

Headstarter, *Software Engineer Fellow* | Remote | *July 2024 - September 2024*
- Built and deployed 5 AI projects using React, Next.js, Firebase, Clerk, and Vercel, incorporating best software engineering practices such as CI/CD for regression detection and iterative deployment.
- Collaborated with and led a team of 3 to build and deploy a SaaS product that generates flashcards based on a given topic using the OpenAI API.
- Developed a RAG-based project with a team of 3 using the OpenAI API and Pinecone that generates responses based on a provided dataset.

SKILLS

Programming Languages: Python, C++

Web Development: JavaScript, TypeScript, React.js, Flask, FastAPI, Next.js

Databases: MySQL, PostgreSQL, Firestore

Technologies & Tools: OpenAI API, Git, Jira

Software Development: Software Development Lifecycle (SDLC), Agile development, unit testing, integration testing, continuous integration and deployment (CI/CD)

PROJECTS

Dating Web App, *Project Developer & Designer* | *June 2023 - Present*
- Developing a dating web app with React.js, CSS, and TypeScript, along with FastAPI, Express.js and PostgreSQL for backend processes.
- Creating a design that emphasizes self-esteem and lays the foundation for a successful relationship.
- Designing a matching algorithm that matches people based on attributes, such as location and bio, with planned future refinements to improve the user experience with the selection of 10 random matches.

BrainflashAI, *Front-End Developer* | *August 2024*
- Collaborated with 3+ team members to develop and deploy AI flashcard app, with 9+ users having signed up.
- Led the design and implementation of the front-end using Next.js and TypeScript, incorporating client-side fetching operations to retrieve relevant information from API routes.
- Partially implemented Stripe API to handle payment processing operations, laying the groundwork for future enhancements, including a premium plan that will contain a 2000+ character limit and a 20+ flashcard collection limit.

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