

Ruben Christopher Arevalo

Software Engineer

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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.