

Ruben Christopher Arevalo

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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

RELEVANT EXPERIENCE

Del Valle Pest Control, Programmer (Software Developer) | Edinburg, Texas | *February 2025 - Present*

- Coordinating with a team of 3 to develop a program that improves inventory quantity tracking.
- Led front-end development of two programs to design and enhance user interface and user experience design.
- Mentored new programmers by providing guidance, insights, and tips on how to succeed in their role and navigate 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 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, Express.js, CSS, HTML

Databases: SQL, MySQL, PostgreSQL, Cloud Firestore

Technologies & Tools: Git, Jira

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

Soft Skills: Leadership, Team Collaboration, Mentoring

PROJECTS

IncludiTrip, Software Engineer Fellow & Independent Software Developer | *August 2024 - September 2024*

- Developed a travel web application with a team of 3 that generates suggested destinations for people with or loved ones who have disabilities.
- Constructed a feature that will allow user to enter their travel dates, budget range (ranging from \$0 to \$5000+), and location of travel.
- Integrated Groq API to generate travel destination/hotel suggestions and a list of accessibility resources that each destination may provide.

BrainflashAI, Software Engineer Fellow | *August 2024*

- Collaborated with 3+ team members to develop and deploy AI flashcard app.
- 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, Software Engineer Fellow | *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 registered.
- Created a feature that allows user to track and update the quantity of a specific item in a pantry—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.