Fernando Ramirez

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Education

University of Houston   Houston, TX
Bachelor of Science in Computer Science, Minor in Mathematics - GPA: 3.7/4.0   May 2024
- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Database Systems, Computer Networks

Technical Skills

Languages: Python, JavaScript, TypeScript, Go, C++, Java, HTML, CSS, SQL
Frameworks/Libraries: React.js, Redux, Express.js, Node.js, Flask, Tailwind, JUnit, Mockito
Developer Tools: Git, GitHub, PostgreSQL, MongoDB, Supabase, AWS, Vercel, Postman, Figma

Experience

University of Houston   Houston, TX
Teaching Assistant - COSC 3380: Database Systems   January 2024 - Present
- **Technologies:** SQL, Python
- Reinforced database systems concepts such as normalization, transactions, concurrency control for 100+ students
- Led weekly labs, conducted office hours, helped debug, and provided feedback on SQL assignments

Amazon Web Services   Seattle, WA
Software Engineer Intern - AWS CloudTrail Lake   May 2023 - August 2023
- **Technologies:** Java, TypeScript, AWS, JUnit, Mockito, Guice, Project Lombok
- Improved the free trial for 1M+ customers from a 5GB usage limit to 7 day limit by modifying the billing system
- Enabled free imports of event data from the past 14 days by modifying data ingestion microservices using Java
- Optimized the free trial data retrieval process by 60% by developing a thread-safe cache accessor using Java
- Increased unit test coverage by 20% across data ingestion and query engine microservices using JUnit and Mockito

UnitedHealth Group   Minneapolis, MN
Software Engineer Intern - OSTS Innovation Lab   September 2022 - May 2023
- **Technologies:** React.js, JavaScript, Express.js, Node.js, MaterialUI
- Developed an internal web app that streamlined the onboarding process for new employees by 40% using React.js
- Utilized company UI/UX design pattern system across 20+ UI components to maintain brand consistency
- Integrated AWS Lex chatbot to the web portal, saving 110+ hours/year of manual work by reducing support tickets

Buzly   Sacramento, CA
Software Engineer Intern - Product Team   June 2022 - August 2022
- **Technologies:** React.js, JavaScript, Express.js, Node.js, Tailwind, Redux, MongoDB, Docker
- Built an admin dashboard to give universities insights on their posts and to advertise to 12,600+ Buzly app users
- Reduced page load times by 3x by lazy-loading images and increased accessibility by following WCAG standards
- Worked directly with the CTO to develop 15+ UI components based on Figma UI/UX designs using React.js

Projects

GoGo API | *Go, Supabase, Vercel*
- Designed and developed a REST API in Go to serve as the backbone of a coding club's technical infrastructure
- Streamlined membership, payment, and event workflows by 75% via API integration on club's website and Discord
- Wrote developer documentation going over the API's endpoints, request/response examples, and error codes

CoCo Bot | *TypeScript, Discord.js, Heroku*
- Developed a discord bot for a coding club to verify membership, view points, and leaderboard for 1,270+ users
- Improved the club's task management system by adding commands for officers to manage and assign todos

Turn-Based Role-Playing Game | *C++, SDL2, UML*
- Developed a 2D turn-based battle game that was voted best among 144 students in my programming course
- Utilized SDL2 to create a GUI that supports actions such as view character stats, attack, run, and save progress