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

Experience

Microsoft   Redmond, WA
Software Engineer - ES365 Experience, 1JS Team   *May 2024 - Present*
- **Technologies:** TypeScript, Azure
- Developing tools to enable web engineering teams to build, test, and deploy their code within a large monorepo

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

University of Houston   Houston, TX
Teaching Assistant - COSC 3380: Database Systems   *January 2023 - May 2024*
- **Technologies:** SQL, Python
- Reinforced database concepts such as normalization, ACID properties, and concurrency control for 115+ students
- Led weekly labs, conducted office hours, helped debug, and provided feedback on SQL assignments

Optum   Minneapolis, MN
Software Engineer Intern - Innovation Lab Team   *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

Projects

Resumes.fyi | *TypeScript, Next.js, Vercel KV, Vercel Blob, Redis*   Website
- Built a start-up to help students discover resumes that passed the resume screen at 140+ tech companies
- Automated the collection of company assets using TypeScript and store them in Vercel KV, saving $1,200+ annually
- Created 10+ API endpoint to serve company assets, gather resume insights using GPT-4, and display resumes

GoGo API | *Go, Supabase, Vercel, Docusaurus*   GitHub
- 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 using Docusaurus covering each API endpoint, objects involved, and examples

CoCo Bot | *TypeScript, Discord.js, Heroku, Docusaurus*   GitHub
- 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
- Wrote user documentation using Docusaurus detailing each of the commands available on the Discord bot

Ube | *Go, Bubble Tea, GoReleaser*   GitHub
- Developed a CLI tool that displays number of lines of code and files in a given directory, grouped by language
- Improved performance by 6x by using Go routines, wait groups, and mutexes to read files concurrently

Technical Skills

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