

Fernando Ramirez

832-877-4168 | ramirez.fernando2003@gmail.com | linkedin.com/in/fndo | github.com/ramirezfernando

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

May 2024 - Present

- **Technologies:** TypeScript, Bash, YAML, Azure
- Built a CLI tool to trace commits through batched builds, reducing debugging time for on-call engineers by over 3x

Amazon Web Services

Seattle, WA

Software Engineer Intern - AWS CloudTrail Lake

May 2023 - August 2023

- **Technologies:** Java, JUnit, Mockito, Guice, Project Lombok, AWS
- Increased the conversion rate by 10% for 1M+ customers by switching from a 5GB usage limit to a 7-day free trial
- Modified the data ingestion and query engine microservices to handle metered billing for the new free trial rule
- Increased unit test coverage by 20% across data ingestion and query engine microservices using JUnit and Mockito
- Optimized the free trial data retrieval process by 60% by developing a thread-safe cache accessor using Java

University of Houston

Houston, TX

Teaching Assistant - 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 students with SQL queries, and graded assignments and exams

Projects

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 operations for 300+ members
- 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

Ube CLI | Go, Bubble Tea, GoReleaser

[GitHub](#)

- Developed a CLI tool that displays the number of lines of code and files in a given directory, grouped by language
- Improved runtime performance by 6x by using Go routines, wait groups, and mutexes to read files concurrently
- Automated the release process by using GoReleaser to build and publish binaries for macOS, Linux, and Windows

Resumes.fyi | TypeScript, Next.js, Redis, Vercel

[Website](#)

- Co-founded a crowd-sourced web app to view resumes that passed the resume screening at top tech companies
- Automated the collection of company assets using TypeScript and store them in Redis, saving \$1,200+ annually

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

Technical Skills

Languages: Python, Go, TypeScript, JavaScript, Java, C++, Bash, HTML, CSS, SQL

Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, Flask, Tailwind, JUnit, Mockito

Developer Tools: Git, GitHub, PostgreSQL, MongoDB, Supabase, Redis, AWS, Azure, Vercel