

# 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

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 ACID properties, indexing, and distributed databases, 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

## 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