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, Rust, Bash, KQL, Docker, Azure, Git
- Built a CLI tool to trace commits through batched builds, reducing debugging time for on-call engineers by over 3x
- Resolved file deletion performance issues by creating a benchmarking tool in Rust, reducing deletion time by 40%
- Owned and maintained Github Codespaces for 940+ engineers in a monorepo, reducing developer onboarding time

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:** PostgreSQL, pgAdmin
- 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

UnitedHealth Group — Minneapolis, MN
Software Engineer Intern - Innovation Lab — *September 2022 - May 2023*
- **Technologies:** Node.js, Express.js, React.js, AWS
- Designed and developed an internal web app to centralize team resources and documentation using React.js
- Reduced the number of support tickets by 15% by developing a REST API to proxy requests to Amazon Lex chatbot

Projects

Resumes.fyi | *TypeScript, Next.js, Redis, Vercel* — Website
- Led 4 engineers to build a web app that displays resumes that passed the resume screening at 140+ tech companies
- Built large parts of the frontend, backend, as well as CLI tools to automate developer operations and data collection

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

Fernhelm | *C++, SDL2* — GitHub
- Developed a 2D turn-based battle game that was voted best out of 144 students in an introductory C++ course
- Used SDL2 to create a GUI to support actions such as view character stats, attack, run, and save/load game state
- Implemented object-oriented concepts such as inheritance to create 3 playable characters with unique abilities

Technical Skills

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