

# LOGAN TRAVIS

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## EDUCATION

### University of Alberta

Bachelor of Science in Computer Science

Edmonton, Alberta

September 2020 - December 2025

## EXPERIENCE

### Software Developer Intern

May 2024 – Present

Microsoft

Vancouver, BC

- Created in game menu features for **Call of Duty: Black Ops 6** and **Modern Warfare III** using **React, CSS and HTML** optimized for the performance constraints and memory limits imposed by PS4 and Xbox Consoles.
- Developed the frontend of the **Top 250 Leaderboards** in React and contributed to the development of the **Leaderboards, COD League Hub and Combat Record** for **Call of Duty**.
- Responded to critical alerts, deploying hotfixes to minimize disruptions during the largest ever Call of Duty launch
- Wrote a chrome extension to streamline pulling **18n** data from an internal dictionary.
- Implemented **unit tests** and **snapshot tests** for feature updates using **Jest**.

## PROJECTS

### Compiler | C++, MLIR, ANTLR4 | [Specs](#)

- Developed a compiler with a team of 4 for a general purpose language, generating **LLVM IR** using **MLIR**.
- Features include function calls, binary operations, loops, conditionals, 2D arrays, structs, type definitions, I/O streams, and memory management.
- Implemented a lexer and parser using **ANTLR4** to generate a custom heterogeneous Abstract Syntax Tree (AST).
- Built an additional compiler to target **RISC-V, X-86** and **ARM** architectures for vector-array based calculations.
- Added a **unit test** for every single feature and implemented, and tested against a competitive suite of **600+** cases.
- Configured **CI/CD** pipelines on GitHub Actions to automate compilation and testing workflows.

### Vanquished Shop | SvelteKit, JS, Go, Postgres, AuthJS, Tailwind | [Link](#)

- Launched a freelance project in SvelteKit with a Go backend, integrating Stripe with a virtual currency and shop, with discord Authentication for managing deliveries and purchase notifications.
- Developed an e-commerce site serving a **8,000+ player community** using Go and SvelteKit.
- Created a responsive and scalable design with TailwindCSS and PostgreSQL.

### Prize Bot V2 | Go, Postgres, AWS | [Github Link](#)

- Developed a Discord bot in Go for community events; **active on 1000+ servers, tracking 440,000+ users**.
- Implemented ticketing system for prize management and utilized AWS RDS for data storage.
- Integrated Stripe API for a premium subscription with Discord benefits.

### ScanPal | Java, Android Studio, Firebase | [Demo](#)

- Full scale Android app for event management, developed using Android Studio with Firebase, developed in a team of 6, allowing attendance tracking, event creation, and real-time notifications.
- Configured **CI/CD** on GitHub Actions to enforce code quality and passing unit tests before merging.

## TECHNICAL SKILLS

**Languages:** Golang, Python, C, C++, JavaScript, Typescript, Rust, Java, HTML/CSS, SQL, RISC-V/ARM/X86,

**Frameworks/Libraries:** SvelteKit, React, React Native, NextJS, Tailwind, HTMX, Flutter, ANTLR4, NPM/Bun, NodeJS

**Relevant Coursework:** Algorithms, AI & Machine Learning, Computer Architecture and Assembly, Database Management, Compiler Design, Reinforcement Learning, Operating Systems.

**Tools:** Git, Docker, CI/CD, AWS, PostgreSQL, Sqlite3, Firebase, Android Studio, UNIX/Linux