

# LOGAN TRAVIS

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## EDUCATION

### University of Alberta

Bachelor of Science in Computer Science

Edmonton, Alberta

September 2020 - December 2025

## EXPERIENCE

### Jobber

May 2025 – Present

Software Engineering Intern

Edmonton, AB

- Building full-stack features in **Ruby on Rails**, **TypeScript**, and **GraphQL** for a platform serving 80k+ businesses.
- Migrated **React islands** in **Rails** views to a **React SPA**, improving maintainability and developer velocity.
- Optimized **Searchkick** reindexing for Home Depot integration (4M+ products, 2,000+ stores).
- Researched indexing strategies and added parallel reindexing via **Sidekiq**, tuning batches for size constraints.
- Enforced 80%+ test coverage on all PRs using **Jest** and **RSpec**, maintaining codebase reliability.

### Activision

May 2024 – May 2025

Software Developer Intern

Vancouver, BC

- Built **Call of Duty: Black Ops 6** leaderboard UI running in an in-game browser, a stripped-down **React** runtime on PS5/Xbox constrained by leftover game memory, requiring strict optimization to prevent crashes.
- Engineered performant components under hardware memory limits using memoization, lazy loading, and CDN caching of player assets to minimize runtime footprint.
- Designed and shipped a Discord bot using **Java/Discord4J** providing real-time player stats to the community.
- Maintained code quality with **Jest** unit and snapshot tests across all UI components.

### Freelance

May 2023 – May 2024

Full-Stack Developer

Remote

- Built an e-commerce platform ([shop.vanquished.gg](#)) for **8,000+ users** using **SvelteKit**, **Go**, and **PostgreSQL**.
- Integrated **Stripe** payments and **Discord OAuth** for virtual currency system with real-time purchase tracking.
- Delivered responsive UI with **Tailwind CSS**; handled full product lifecycle from design to deployment.

## PROJECTS

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

- Built a full compiler from scratch: lexer/parser (**ANTLR4**), type system, semantic analysis, and code generation targeting **LLVM IR** via **MLIR**.
- Implemented language features including functions, loops, conditionals, type inference, and 2D array operations.
- Passed **600+ competitive test cases** with comprehensive unit testing; automated builds via **GitHub Actions CI/CD**.

### Prize Bot | Go, PostgreSQL, AWS, Stripe | [GitHub](#)

- Built and scaled a **Go** Discord bot to **1,000+ servers** and **440,000+ users**—handling concurrent events and prize distribution.
- Integrated **Stripe** for subscription billing and **AWS RDS (PostgreSQL)** for persistent data storage.

### Multiplayer Poker Engine | Rust, Rocket, PostgreSQL

- Engineered a networked multiplayer poker server in **Rust** with async game loops via **Rocket**, supporting concurrent sessions.
- Implemented multiple game modes (Texas Hold'em, 5-card draw) with both CLI and networked client support.
- Persisted user accounts and game history in **PostgreSQL** with efficient query patterns.

## TECHNICAL SKILLS

**Languages:** Go, Rust, TypeScript, C/C++, Python, Java, JavaScript, Ruby, RISC-V/ARM/x86 Assembly, SQL,

**Frameworks:** React, Rails, SvelteKit, Next.js, Rocket, Tailwind, React Native, HTMX, Node.js, LLVM/MLIR

**Infrastructure:** AWS (RDS, EC2), PostgreSQL, Docker, Git, GitHub Actions CI/CD, Linux, Firebase, Stripe API

**Relevant Coursework:** Compiler Design, Parallel & Distributed Systems, 2D Game Engine Design, Network Security, Embedded & Robotic Systems, AI & Machine Learning, Computer Architecture, Databases, Reinforcement Learning, Operating Systems