# Eilay Katsnelson

me@eilayk.com | linkedin.com/in/eilayk | github.com/eilayk | eilayk.com

## EDUCATION

| **University of Ottawa** | Ottawa, ON |
|---|---|
| *Honours Bachelor of Science in Computer Science (CO-OP) 9.1/10 CGPA* | *September 2022 – December 2026* |

## EXPERIENCE

**Software Development Intern** — May 2024 – August 2024
*RBC Capital Markets* — *Toronto, ON*
- Designed and implemented a **CI/CD pipelines** using **GitHub Actions** and **UrbanCode Deploy**, decreasing runtime by 75% and resulting in streamlined deployments and decreased complexity
- Designed and implemented UI features based on user feedback using **React**, **MUI**, and **AG-Grid**, increasing adoption rates by 20% and leading to increased employee productivity
- Investigated mission-critical bugs, resulting in increased stability and better security in packages used by numerous teams

**Software Development Intern** — May 2023 – August 2023
*RBC Capital Markets* — *Toronto, ON*
- Developed performant **Spring Boot** backends using **GridGain** as a data layer and **Solace** with **Protobuf** for cross-microservice communication
- Created a live feedback feature for pending trades using **Solace Event Broker** that is capable of handling over 10 thousand trades simultaneously
- Upgraded old packages, fixed breaking changes, and re-wrote old code to reduce tech debt and improve security and maintainability

## PROJECTS AND EXTRACURRICULARS

**uOttawa Rocketry - Avionics** | *Typescript, Svelte, PocketBase, Rust* — September 2023 - Present
- Contributed to the development of a ground station that receives information sent by embedded electronics on the rocket
- Created a log viewer component that displays all information being sent to the database, complete with live-updates and full-text search
- Implemented recovery state identification that allows the rocket to save power while it is awaiting recovery

**SmartGO** | *Svelte, Rust, SQL* — January 2024
- Developed a full stack application for GO transit that provides general information about train routes
- App is able to automatically fetch updated GTFS feeds from GO's website and populate an SQLite database
- App combines static GTFS data with Metrolinx's real-time API to send updated route information such as delays, alerts, platform numbers, and train length

**uOttawaRMP** | *JavaScript, GraphQL, WebExtensions API* — January 2023
- Based on a similar extension created for York University and modified to work for the University of Ottawa
- Cross-browser extension that adds RateMyProf stats to the University of Ottawa's course selection portal by fetching and injecting the data into the web page
- Greatly enriches the course selection experience for students at the University of Ottawa

**Computer Science Club Founder** — October 2021 – June 2022
- Started a computer science club at my high school due to popular demand
- Created and taught lessons teaching basic programming, data structures, and algorithms
- Gave club members direction in pursuing their computer science hobbies

## SKILLS

**Programming Languages**: Java, JavaScript, Python, Rust, C#, HTML/CSS, SQL
**Frameworks**: Spring Boot, React, SvelteKit
**Related Skills**: Linux, Networking
**Developer Tools**: Git, Docker, VS Code, Visual Studio, IntelliJ, JIRA, Nginx