

# Eilay Katsnelson

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## EDUCATION

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### University of Ottawa

*Honours Bachelor of Science in Computer Science (CO-OP) 9.1/10 CGPA*

Ottawa, ON

2022 - 2026

## EXPERIENCE

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### Software Development Intern

May 2023 – August 2023, May 2024 – August 2024

*RBC Capital Markets*

*Toronto, ON*

- Designed and implemented a CI/CD pipeline using GitHub Actions and UrbanCode Deploy, resulting in streamlined deployments, decreased complexity, lower runtime
- Designed and implemented UI features based on user feedback using React, MUI, and AG-Grid, leading to increased employee productivity and driving higher adoption rates
- 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 thousands of trades simultaneously
- Upgraded old packages, fixed breaking changes, and re-wrote old code to reduce tech debt and improve security and maintainability
- Led cross-team communication efforts resulting in bug fixes and improvement in packages used by numerous teams

## PROJECTS AND EXTRACURRICULARS

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### uOttawa Rocketry - Avionics | *Typescript, Svelte, PocketBase, Rust*

Sept 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

### Fileshare | *React, Node.js, WebRTC*

March 2023

- P2P file sharing project created for uOttawa's HackTheHill hackathon
- Developed secure file-sharing functionality by sending file packets over a P2P webRTC connection established through ICE
- Serves a secure and private alternative for cloud file-sharing that does not require servers or storage

### 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

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**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