Eilay Katsnelson

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EDUCATION

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

EXPERIENCE

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. Capable of handling thousands of trades
- 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

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 a 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 as an 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. 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