

# Mehrdad Ghannad

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## EDUCATION

### University of Toronto

Expected graduation: June 2025

*Honours Bachelor of Science in Computer Science (Co-op)*

- Awards: Dean's List 2021, University of Toronto Entrance Scholarship

## WORK EXPERIENCE

### Software Engineer Intern — Wealthsimple

Jan 2025 – present

- Payment Cards Team

### Software Engineer Intern — Ada

May 2024 – Dec 2024

- Led the migration and refactoring of an external data export microservice built with **Python** and **Flask** into the core development codebase, improving maintainability and streamlining development workflows.
- Conducted extensive experimentation with AI models to assess how well they categorized various types of customer conversations, employing statistical analysis to enhance service accuracy by **20%**.
- Integrated Datadog into the data deletion microservice for real-time monitoring, enabling comprehensive metrics and logs in order to comply with data protection regulations.

### Software Engineer Intern — Fluence Technologies

May 2023 – Sep 2023

- Designed and implemented a highly customizable white-labeling solution featuring custom themes for the application frontend using **Vue.js** and **TypeScript**, reducing rebranding time by **90%** for OEM partners.
- Integrated a user-role system, granting tailored feature access to authorized users and fortifying system security, resulting in a **40% decrease** in user access conflicts and errors.

### Software Developer Intern — Royal Bank of Canada (RBC)

Sep 2022 – Dec 2022

- Enhanced database monitoring by creating and deploying a customizable **Docker image** on **Rundeck** for fast **SQL query** execution on database servers, enabling real-time tracking of app health and performance using **Elastic**.
- Fully integrated **PagerDuty** with **5+ products** to automatically trigger alerts and send reports during testing.
- Optimized testing workflows by designing and deploying modular playbooks using **Ansible** and **Python** to run validation and performance tests on **300+ servers**, resulting in an average of **50% reduction** in duration and improved reliability of results.

### Full-Stack Developer Intern — Skatescribe

Jan 2022 – Apr 2022

- Designed and developed responsive, customizable, and modular front-end components using **TypeScript** and **React**, ensuring their reusability across multiple features.
- Built scalable **RESTful APIs** using **Python Flask**, resulting in a 40% improvement in database performance through efficient query optimization, and developed a **PostgreSQL** database architecture to support the development of **15+ features**.
- Implemented a fully automated application update system, incorporating a customized **Git system** for managing application versions, leading to a **400% faster** update process.

## PROJECTS

### Sylb.ca 🌐

- Designed, built, and deployed a cross-platform web application for UofT students to share course information and syllabus files using **TypeScript** and **Next.js**, creating a community of over **1500 active users**.
- Implemented a **Firebase Firestore** collection with refined search features using optimized query and indexing methods.

### Auto Anonymization Tool

- Collaborated with an **Agile** team to develop and deploy an Anonymization API using **Python Flask** and a **React** user interface while utilizing **Docker** and **GitHub Actions** to streamline workflows for efficient deployment on **Google Cloud**.
- Integrated machine learning models for automated detection and anonymization of sensitive data in large datasets.

### Movifyr - Movie Recommendation App 🎬

- Developed an app using **Expo** and **React Native**, ensuring smooth performance on Android, iOS, and web platforms.
- Utilized OpenAI's API to deliver personalized movie recommendations to users based on their preferences and past favorites.

## SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, C, C++, C#, HTML, CSS, Ruby

**Frameworks and Libraries:** React, Vue.js, Node.js, Flask, ASP.NET, React Native, Ruby on Rails

**Tools and Technologies:** Git, Docker, Azure DevOps, Ansible Tower, Linux, PostgreSQL, Expo