

Mehrdad Ghannad

☎ 647-679-6476

✉ mehrdad.ghannad@gmail.com

in/mehrdadghannad

🌐 mehrdadq.github.io

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

TECHNICAL SKILLS

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

Frameworks and Libraries: React, Vue.js, Node.js, Flask, ASP.NET, PostgreSQL, React Native, Expo

Tools and Technologies: Git, Docker, Azure DevOps, Android Studio, Ansible Tower, Jira

PROFESSIONAL EXPERIENCE

Software Development Intern

May 2023 – Sep 2023

Fluence Technologies

- Designed and implemented a robust white-labeling solution 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.
- Refactored API endpoints using **ASP.NET** by optimizing **SQL** queries, achieving a **70% increase** in scalability.

Software Developer Intern

Sep 2022 – Dec 2022

Royal Bank of Canada (RBC)

- Enhanced database monitoring by creating and deploying a customizable **Docker image** on **Rundeck** for fast **SQL query** execution on **5+ 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.
- Automated software installation on **100+ remote Windows servers** by designing and developing **Ansible Tower** playbooks and workflows, eliminating the manual process and saving up to **30 minutes** per application.

Full-Stack Developer Intern

Jan 2022 – Apr 2022

Skatescribe

- 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 process, 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 **250 active users**.
- Implemented a **Firebase Firestore** collection with refined search features using optimized query and indexing methods.

Auto Anonymization Tool

- Collaborated on 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.

Eventorizon

- Launched a website utilizing **Node.js** and **React** to dynamically display Ticketmaster events on an interactive map.
- Built a secure user-based system and enhanced security measures by integrating 2FA using Duo.

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.