

Akash Sharma

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EDUCATION

McMaster University

Sept 2020 – May 2025

Bachelor of Engineering in Computer Engineering, Co-op

- **Awards:** Dean's Honours List, McMaster Honours Award
- **Relevant Courses:** Data Structures and Algorithms, Object-Oriented Programming, Software Development

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL, C/C++, HTML/CSS

Libraries and Frameworks: Express.js, React, Selenium, Angular, Spring Boot, Bootstrap, Material UI

Developer Tools: Git, Google Cloud Platform, MongoDB, Jira, Postman, Netlify, Heroku, PostgreSQL, Kubernetes

EXPERIENCE

Sun Life Financial

Sep 2023 - Dec 2023

Software Engineer Intern

Waterloo, Ontario

- Leading the development and deployment of APIs using **Java Spring Boot**, **Apache Kafka**, and **Kubernetes**
- Building features for an interactive web-app using **React** to teach **1000+** users the basics of **Docker** and **Kubernetes**

Toronto-Dominion Bank

May 2023 - Aug 2023

Software Engineer Intern

Toronto, Ontario

- Developed new features for the TD Mortgage Pre-Approval web app with **3000+** daily users to increase app efficiency
- Built **3 Java Spring Boot** end points to create applicant records in **Salesforce** from data provided by the **Angular** UI
- Architected an **Angular** and **TypeScript** co-borrower flow to facilitate seamless creation of **300+** joint applicants
- Initiated the NAS-path migration, configuring **25+ Kotlin**, **PowerShell**, and **AutoSys** jobs for new path requirements
- Constructed **HTTP** request and response **JSON** objects to facilitate communications between client and server

Toronto-Dominion Bank

May 2022 - Aug 2022

Quality Engineer Intern

Toronto, Ontario

- Migrated **2200** test cases from **SOAtest** to **REST-assured** to save **\$12000+** annually in **SOAtest** license costs
- Engineered **5+** API test suites using **Java** and object-oriented practices to increase test suite performance by **40%**
- Incorporated multithreading design practices to run concurrent threads that sped up test suite run times by **200%**
- Developed a **Selenium** script that extracts authorization tokens from **4 accounts**, saving hours of time weekly

McMaster Automotive Resource Centre

May 2022 - Aug 2022

Software Engineer Intern

Hamilton, Ontario

- Created a **RabbitMQ** work queue using **Python Pika** to distribute **1000+** time consuming tasks among workers
- Established both a local and server-side database management system using **Liquibase**, **Docker**, **Kubernetes**, and **GitHub Actions** to ensure that the **PostgreSQL** databases remain synchronized
- Built **4 OpenAPI** schema and corresponding **PostgreSQL** table definitions to align with the research models required

PROJECTS

Meal Idea Generator 🐙 | React, Node.js, Express.js, MongoDB, bcrypt.js

- Constructed a full-stack web application to help users conveniently generate meal ideas on a daily basis
- Architected a RESTful back-end to support user profiles and custom meal suggestions, increasing retention by **75%**

Gym Registration Bot 🐙 | Python, Selenium, Docker, Google Cloud Platform

- Conceptualized an automated gym booking bot set to schedule gym sessions at the optimal time every other morning, resulting in a **65%** increase in monthly booked sessions