

Akash Sharma

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EDUCATION

McMaster University

Sep 2020 – May 2025

B.Eng, Computer Engineering (Co-op)

- **Awards:** Deans Honor List (2020-2022), Honors Entrance Scholarship (\$2000)

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, Docker, Kubernetes

EXPERIENCE

Sun Life Financial

Sep 2023 - Dec 2023

Software Engineer Intern

Waterloo, Ontario

- Building and deploying event-driven microservices in **Java Spring Boot**, **Apache Kafka**, **Docker** and **Kubernetes**
- Developing features for an internal API portal using **React** and **Java Spring Boot** to enhance website user experience

Toronto-Dominion Bank

May 2023 - Aug 2023

Software Engineer Intern

Toronto, Ontario

- Developed new features for the TD Mortgage Pre-Approval web app to increase site efficiency for **3000+** daily users
- 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
- Constructed **HTTP** request and response **JSON** objects to facilitate communications between client and server
- Initiated the NAS-path migration, configuring **25+ Kotlin**, **PowerShell**, and **AutoSys** jobs for new path requirements

Toronto-Dominion Bank

May 2022 - Aug 2022

Quality Engineer Intern

Toronto, Ontario

- Migrated **2200** test cases from **SOAtest** to **REST-assured** to save **\$6000+** 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 a local and server-side database management system using **Liquibase**, **Docker**, **Kubernetes**, and **GitHub Actions** to ensure that **2000+ PostgreSQL** tables 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