

Akash Sharma

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EDUCATION

McMaster University

Sep 2020 – Apr 2025

Bachelor of Engineering in Computer Engineering, Co-op

TECHNICAL SKILLS

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

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

Developer Tools: Git, Postman, Kafka, RabbitMQ, MongoDB, PostgreSQL, Docker, Kubernetes, GCP, Jira, Swagger

EXPERIENCE

TD Bank, AMCB

Jan 2024 - Apr 2024

Software Engineer Intern

Toronto, Ontario

- Developing **Java** microservices and APIs, enabling a seamless experience for employees at **1100+ American stores**
- Constructing **Oracle SQL** scripts for group creation and permission assignment, including rollback functionality
- Revamping authentication system by integrating physical ID verification, using **Java** for processing and validation

Sun Life

Sep 2023 - Dec 2023

Software Engineer Intern

Waterloo, Ontario

- Enriched usability of internal web portal by developing **5 high demand full-stack features** used by **100+ engineers**
- Cut **5+ hours per onboarding cycle**, developing a **Java** and **React** web architecture diagram to illustrate API flow
- Built a **Node.js** tool to migrate **700+ Swaggerhub APIs** into **Rapid API** to save **200+ hours** and improve handiness
- Resolved **13 schema discrepancies** by creating a write model strategy for real-time **Kafka** data storage in **MongoDB**

TD 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
- Boosted **mortgage approvals** by **10%**, by building a **Angular** and **Java** co-borrower flow to support joint applicants

TD Bank

May 2022 - Aug 2022

Software Engineer Intern

Toronto, Ontario

- Conserved **\$6000+ annually** in **SOAtest license costs** by migrating **2200 test cases** from **SOAtest** to **REST-assured**
- Engineered **5+ API test suites** using **Java** and object-oriented practices to increase **test suite performance by 40%**
- Accelerated **API test suite run times by 200%** via multithreading design practices for concurrent thread execution

CERC@MARC

May 2022 - Aug 2022

Software Engineer Intern (part-time)

Hamilton, Ontario

- Created a **RabbitMQ** work queue using **Python Pika** to distribute **1000+ time consuming tasks** among workers
- Established a database management tool using **Docker**, **Kubernetes**, and **GitHub Actions** to keep databases synced

PROJECTS

Meal Idea Generator 🔄 | *React, Node.js, Express.js, MongoDB*

- Constructed a full-stack web application to help users conveniently generate meal ideas on a daily basis
- Composed 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**