

# Arkin Modi

FULL STACK SOFTWARE DEVELOPER · SOFTWARE ENGINEERING & MANAGEMENT GRADUATE

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## Technical Skills

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**Languages** Python 3, Java, Bash, TypeScript, JavaScript, HTML, CSS, SQL, CQL, LaTeX  
**Frameworks** Spring, Spring Boot, Next.js, PyTest, JUnit, Mockito  
**Technologies** Docker, Kubernetes, GitHub Actions, Git, Unix Environment, React, Gradle, Cassandra, Jenkins, SonarQube, Node.js, Ansible

## Work Experience

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**IBM** *Markham, Ontario, Canada*  
SOFTWARE ENGINEERING INTERN *May 2021 — August 2022*

- Technologies Used: Java, Spring, Spring Boot, Apache Kafka, Redis, and Apache Cassandra
- Develop and test software for IBM Supply Chain Intelligence Suite's Provisioning, User Management, and Access Control team using a RESTful Microservices Architecture
- Created a Rest Response Framework to standardized response body with detailed logging
- Automated subscribing to catalogs of services (APIs) and generating credentials, resulting in a 2000% process time reduction
- Hosted educational sessions teaching best practices and new technologies
- Performed product demonstrations to key stakeholders, management, and internal teams
- Optimized performance and implemented caching strategies to reduce REST calls response time from over 10 seconds to below 300 milliseconds

**McMaster University** *Hamilton, Ontario, Canada*  
UNDERGRADUATE TEACHING ASSISTANT *January 2021 — April 2021*

- Course: ENGINEER 1P13, Integrated Cornerstone Design Projects in Engineering
- Technologies Used: Python 3
- Project-based integrated course that introduces a range of topics in engineering design and profession

**McMaster University** *Hamilton, Ontario, Canada*  
UNDERGRADUATE TEACHING ASSISTANT *September 2020 — December 2020*

- Course: SFWRENG 3BB4, Software Design II — Concurrent System Design
- Technologies Used: Python 3, Java, C++, and Go
- Created material for and taught tutorials on topics including Atomicity, Condition Synchronization, Semaphores, Monitors, Message Passing, Remote Procedure Calls, Coroutines and Futures

## Education

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**McMaster University** *Hamilton, Ontario, Canada*  
BACHELOR OF ENGINEERING & MANAGEMENT, SOFTWARE (CO-OP) *September 2017 — April 2023*

- CGPA: 3.6 out of 4.0; Graduated with Distinction; Dean's Honour List

## Projects

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**Sayyara**  
SFWRENG 4G06 · SOFTWARE DESIGN IV — CAPSTONE DESIGN PROJECT

- Technologies Used: TypeScript, Next.js, React, and MySQL
- Lead a team of four in developing a marketplace and shop management platform for auto repair shops and vehicle owners
- Created the backend for majority of the website and the frontend for the Work Orders page
- Developed a Full Stack Progressive Web Application on a Serverless Architecture following the Engineering Design Process
- Project was built under the supervision of an external stakeholder and was tested by real mechanics and vehicle owners

**MacTA Gateway**  
SFWRENG 4HC3 · HUMAN COMPUTER INTERFACES

- Technologies Used: JavaScript, React, React Router
- A unified platform for posting and applying to teaching assistant positions at McMaster University
- Built the Job Application and Interview Scheduling pages
- Created Design Documentation and Usability Testing Documentation