

Arkin Modi

FULL STACK SOFTWARE DEVELOPER

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Technical Skills

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

Work Experience

IBM [Markham, Ontario, Canada](#)
FULL-STACK SOFTWARE DEVELOPER January 2024 — Present

- Technologies Used: Java, Spring, Spring Boot, Apache Kafka, Apache Cassandra, Ansible, Python, TypeScript, and Angular
- Led backend and frontend development and contributed to architecture of an external data sourcing framework for IBM Envizi that ingests third-party datasets into user accounts for emissions computation
- Served as development lead for IBM Envizi's account provisioning automation, primarily responsible for coding while assisting in system design
- Identified workflow bottlenecks and independently built developer tools, including a dashboard for account data and routine operations, that streamlined day-to-day engineering tasks
- Served as primary reviewer for code submissions, providing detailed feedback on logic, performance, security, and styling, to maintain engineering standards
- Led team to 1st place in early career innovation challenge, guiding design and development of a manager-sponsored project using IBM Enterprise Design Thinking and presenting results to executives

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 Distributed RESTful Microservices Architecture
- Developed an HTTP response framework that standardized microservice responses and embedded detailed action logs in responses to improve error visibility for callers
- 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

Education

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

Add License Header

OPEN SOURCE

- Created an open-source Python tool to automatically adding and updating license headers in source code
- Achieves 3.5K+ downloads per month, improving compliance and developer efficiency

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