

Aaron Rajan

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EDUCATION

McMaster University (B.Eng.Mgt) <i>Bachelor of Computer Engineering and Management, GPA: 3.7/4.0</i>	Hamilton, ON Sep. 2020 – Apr. 2025
• McMaster Honour Award (\$1,000) Dean's Honour List (Fall 2020 - Winter 2022, Fall 2023 - Winter 2024)	

TECHNICAL SKILLS

Languages: Python • Java • Verilog • C/C++ • YANG • JavaScript • SQL • MongoDB
Web Development: HTML • CSS • Flask • Django • React.js • Node.js • Express.js • TypeScript • TailwindCSS
Frameworks & Libraries: Spring Boot • Spring MVC • Spring Data JPA • Spring Boot Test • JUnit • Mockito • Jest
Tools: Git/GitHub • Docker • Maven • Jenkins • AWS • Azure • GCP • Linux • Swagger • Postman • IntelliJ • TDD

EXPERIENCE

Software Developer Intern 🔗	May 2024 - Aug. 2024
Scotiabank	Toronto, ON
• Designed an interactive UX using Flask and Node.js backends and REST APIs, integrating HTML , CSS , and JavaScript (React.js) , enabling non-functional testing of Apache Airflow DAGs across 4+ environments.	
• Built a Bash deployment script following DevOps practices to deploy code to Azure Repos and Bitbucket , manage 4+ lifecycle environments, and containerized environments using Docker .	
• Created a script to accelerate the process of comparing 2 files across different lifecycle environments and dates by 80% using Python , Linux , and SQLite .	
• Expanded functionality for monitor tool to work in new environments by establishing a connection to an Oracle database using Python , Linux , and Apache Airflow to send out 10+ emails daily.	
Software Intern 🔗	May 2023 - Aug. 2023
Ciena	Ottawa, ON
• Utilized Python , C , and YANG to establish a wacsim to manage test suites and improve client experience.	
• Improved memory efficiency of a test suite by 40% using Linux shell script and Python File I/O .	
• Tested changes in hardware by upgrading from 3+ different states to ensure the behaviour is as expected.	
• Applied skills in version control (Git , Bitbucket , and Jira) and leveraged Postman for validating RESTful APIs , ensuring thorough integration and consistent functionality of changes within the team's CI/CD pipeline.	

PROJECTS

RESTful Job Portal 🔗 Full-Stack Java Developer	Mar. 2025 - Sep. 2025
• Built a full-stack Job Board web application featuring a Java Spring Boot backend with PostgreSQL for data storage and a dynamic frontend using React and Node for interactive, real-time job listings and user actions.	
• Containerized the app with Docker to streamline deployment and enable scalable, cloud-native development.	
Self-Sustaining Intelligent Greenhouse 🔗 Full-Stack Developer	
• Developed a dashboard with Python , JavaScript , HTML , and TailwindCSS to display real-time sensor readings and AI-driven recommendations, ensuring seamless real-time monitoring and user interaction.	Sep. 2024 - Apr. 2025
• Programmed ESP32 in C++ via Arduino IDE to automate sensor control and data logging to AWS RDS MySQL , enabling AI models in Python using TensorFlow like LSTM and ResNet-50 for real-time insights.	
Currency Converter 🔗 Java Developer	May. 2021 - Jun. 2021
• Engineered a desktop application in Java that supports real-time conversion between 170+ currencies using RESTful APIs and structured JSON data, applying OOP principles for modular, maintainable code.	
• Designed an intuitive GUI using Java Swing , focusing on clean UI/UX to improve usability and navigation.	

EXTRACURRICULAR

Open-Source Team Member 🔗	Sep. 2023 – Apr. 2024
Google Developer Student Club McMaster University	Hamilton, ON
• Collaborated in an Agile team to develop a gamified learning platform on Ubuntu using Django and Docker , enhancing user engagement by 40%.	
• Built the user interface with Django Templates , HTML , and CSS , aligning closely with Figma prototypes.	
• Implemented a scalable back-end using Google Cloud SQL and Flask , deployed through Docker containers.	