Mohamed Riad Maaji

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EDUCATION

Computer Science Technology (DEC)
Dawson College, Montreal, QC
Jun 2026

TECHNICAL SKILLS

Languages
JavaScript, Python, Kotlin, Java, C#, HTML/CSS, SQL, Bash

Libraries
React, Chart.js, Leaflet, Jetpack Compose

Frameworks & Runtimes
Node.js, Express, Flask, .NET, Avalonia

Databases
PostgreSQL, MongoDB, Room, JDBC

DevOps & Testing
Linux, Docker, AWS, Git/GitHub, JIRA, JUnit, MSTest, xUnit, TDD, CI/CD

Other
MQTT, WebSockets, REST APIs, Hardware Configuration & Technical Support

LANGUAGES

French: Native

English: Highly proficient

Arabic: Conversational

PROFILE

Final-year Computer Science student at Dawson College with strong foundations in full-stack development, mobile applications, and IoT systems. Experienced in React, Node.js, Python, and Kotlin through projects featuring quantified performance improvements and live deployments. Strong problem-solving and collaboration skills with experience in Git-based workflows, CI/CD pipelines, and agile methodologies. Seeking an internship to apply technical expertise in real-world software engineering.

TECHNICAL SUMMARY

- **Full-Stack Development:** React, Node.js, Express, MongoDB with 67% performance optimization
- **Mobile App Development:** Native Android with Kotlin, Jetpack Compose, MVVM architecture
- **Cloud Deployment & CI/CD:** AWS Lightsail, Docker, GitLab CI/CD pipelines
- **IoT Systems:** Real-time MQTT data streaming, WebSocket communication, sensor integration

WORK EXPERIENCE

Sales Representative, Rogers   *Jun 2025 - Present*
Repentigny, QC
- Analyzed customer requirements and translated technical specifications into tailored wireless solutions
- Consistently **exceeded sales targets by 15%** through effective client communication and needs assessment
- Developed deep technical product knowledge across devices, plans, and services to provide expert guidance

PROJECTS

Armed Conflict & Expenditure Analysis   *2025*
React, Node.js, Express, MongoDB, Chart.js
- Built **React** and **Node.js** data visualization tool enabling researchers to analyze global armed conflicts and military spending (1960-2021)
- **Improved performance by 67%** (FCP from 5.4s to 1.8s) through **Express** middleware compression and caching
- Implemented **MongoDB** aggregation pipelines with server/browser caching, **reducing TTFB to 6ms**
- Deployed on **AWS Lightsail** with **GitLab CI/CD** pipeline for automated testing and deployments

Metro Trip Planner   *2025*
React, Express.js, Leaflet, GeoJSON, REST API
- Developed **React** and **Express.js** web app helping Montreal commuters plan optimal routes on the STM metro system
- Implemented server-side route calculation with **REST API** validation and real-time Wikipedia API integration
- Designed responsive UI using **Leaflet** and **GeoJSON** with color-coded polylines matching official metro colors

Booked! Reading App   *2025*
Kotlin, Jetpack Compose, Room, Hilt, Android
- Built **Kotlin** and **Jetpack Compose** Android e-reader with text-to-speech and full-text search for Project Gutenberg classics
- Implemented adaptive navigation system switching between bottom bar/rail/drawer based on device width
- Applied **MVVM architecture** with **Hilt** dependency injection and **Room** database for offline storage

MQTT Forest Monitoring System   *2025*
Python, MQTT, WebSockets, Docker, IoT
- Developed **Python** IoT monitoring platform with real-time **MQTT** data streaming for forest condition tracking
- Deployed **Docker** containerized HiveMQ broker with hierarchical topic structure for sensor data organization
- Built dual-protocol architecture with **WebSocket** chat enabling simultaneous sensor monitoring and team collaboration