

MOHAMED GUEYE

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Education

Concordia University

Sep 2022 – May 2026

Bachelor of Engineering, Software Engineering

Montreal, Quebec

Relevant Courses: Object-Oriented Programming I and II, Web Programming, Data Structures and Algorithms, Software Process and Practices, User Interface Design, Software Architecture and Design

John Abbott College

August 2020 – July 2022

Diploma of Collegial Studies, Pure and Applied Science

Montreal, Quebec

Dean List (2021, 2022)

Projects

Mobile App for Campus Navigation in Concordia | *Source Code* React Native | JavaScript | Jest | SonarQube

- Worked as part of a **10-developer Agile team** to build an indoor and outdoor navigation app for Concordia University using **React Native**.
- Enabled automatic navigation to upcoming classes by retrieving event data from **Google Calendar**.
- Improved application reliability by **15%** through comprehensive **unit testing with Jest**, reducing bug reports during user testing phases.
- Enhanced code quality and maintainability by integrating **SonarQube** for static code analysis and issue tracking.

Car Rental Web Application (Academic) | *Source Code*

Svelte | NestJS | PostgreSQL

- Led a cross-functional team of **6 developers** to design and deploy a full-stack car rental booking platform.
- Designed and optimized a responsive **Svelte + Tailwind CSS** frontend, reducing page load time by **30%** to improve customer booking experience.
- Secured backend operations by implementing car listings and booking functionalities via **NestJS APIs**.
- Managed user profiles and reservations efficiently through a **PostgreSQL** relational database.

Lesson Scheduler (Academic) | *Source Code*

Java | SQL

- Streamlined lesson management by building a Java-based scheduling platform with **multi-threaded concurrency control**.
- Ensured data consistency and integrity by integrating **SQL relational databases**.
- Supported multiple user roles (admin, instructor, client) with **role-specific operations** across the system.

Soccer Database Project (Academic) | *Source Code*

Python | PostgreSQL | Neo4j

- Enabled soccer trend exploration by building and populating a relational database using **Python scripts and Soccer APIs**.
- Visualized player and team relationships by integrating **Neo4j graph structures**.
- Optimized data retrieval by **25%** through ERD-driven schema improvements and query refactoring.

AI Job Analyzer (Under Development)

ReactJS | ExpressJS | Gemini | Make.com

- Currently developing an AI-driven tool to automate resume-to-job matching through **Gemini API integration**.
- Building functionality to extract key skills and generate tailored suggestions through **semantic analysis techniques**.
- Implementing automation workflows using **Make.com** to create and email custom application reports.

Full Stack File Upload System (Under Development)

ReactJS | Spring Boot | AWS

- Building a secure full-stack file upload platform connecting a **React frontend** to a **Spring Boot REST API**.
- Integrating **AWS S3** for cloud storage with secure **IAM role-based access controls**.
- Preparing for deployment using **AWS EC2** and distributing static frontend assets through **CloudFront**.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML5, CSS

Libraries/Frameworks: ReactJS, Svelte, Tailwind CSS, PostgreSQL, NodeJS, NestJS, ExpressJS, Spring Boot, Jest, AWS (S3, EC2, CloudFront)

Developer Tools: Postman, Git, SonarQube, PowerBI, Microsoft Office (Word, Excel, Power Point)

Methodologies: Agile, Scrum