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HIGHLIGHTS OF QUALIFICATIONS

- Recent Software Engineering Technology graduate from McMaster University with an Advanced Diploma in Computer Programming & Analysis from Humber Polytechnic
- Full-stack software developer with hands-on co-op and contract experience building web applications, RESTful APIs, backend services, and data-driven features using Java, C#/.NET, Spring Boot, Node.js, React, and TypeScript
- Applied database, cloud, and DevOps experience using PostgreSQL, SQL Server, MongoDB, AWS, Docker, GitHub Actions, Azure DevOps, and CI/CD pipelines
- Recognized on the Dean's Honour List in all semesters, with capstone project experience and Ontario Skills coding competition participation

EDUCATION

McMaster University - Hamilton, ON

Sep 2024 – Aug 2026

Bachelor of Software Engineering Technology

Relevant Courses:

- Data Structures & Algorithms, Software Architecture, Cloud Computing, Data Analytics, Artificial Intelligence, Computer Security, Software Requirements, Advanced Network Security

Humber Polytechnic - Etobicoke, ON

Sep 2021 – Apr 2024

Advanced Diploma – Computer Programming & Analysis

PROFESSIONAL EXPERIENCE

Software Developer Co-op

Jan 2026 – Apr 2026

ATS Corporation, Cambridge, ON

- Contributed to **Illuminate™ Manufacturing Intelligence** by developing **.NET/C#** backend services and **React** features for real-time manufacturing data collection and reporting systems
- Designed and enhanced **RESTful APIs** and time-range data features for **analytics**, production reporting, workflow visibility, and improved manufacturing intelligence solutions
- Validated **APIs** and software features using **Locust-based** performance testing, applying strong **attention to detail** to verify **reliability**, **scalability**, and program completeness
- Investigated **SQL Server** data issues and **IM1 to IM2 migration** challenges, **communicating** technical findings clearly to support system stability and team **collaboration**

Software Engineer (Contract)

May 2025 – Dec 2025

WACADS Group Inc, Markham, ON

- Engineered full-stack and backend software using **Spring Boot, Java, and Node.js**, designing **modular APIs** and reusable services that improved maintainability and **reduced duplication by 25%**
- Developed responsive web interfaces with **React and TypeScript**, integrating **API endpoints** and state management to deliver consistent, high-performance user experiences
- Implemented **secure** and **scalable microservices** with **Spring Boot and Node.js**, applying **problem-solving** skills to build **authentication, routing, and middleware logic** aligned with **RESTful** design principles
- Optimized **database performance** and **reliability** by improving schemas, queries, and **caching** with **PostgreSQL, MongoDB, and Redis** while supporting faster core service response times

Full Stack Engineer (Contract)

Dec 2023 – Mar 2025

Humber Polytechnic, Toronto, ON

- Developed full-stack applications using **Spring Boot, Node.js, and React**, implementing **RESTful APIs** and front-end components for real-time interaction and user management features
- Configured containerized environments with **Docker** and **GitHub Actions**, enabling **automated testing**, continuous integration, and consistent deployments across staging and production systems
- Integrated **TypeScript-based** interfaces with backend logic, optimizing **API calls**, routing, and form validation while maintaining accessibility, responsiveness, and clean user experience standards

PROJECTS

Plicketz

Sep 2023 – Apr 2024

Full-Stack Event Ticketing Platform | Private Repository Available Upon Request

Tools Used: React, React Native, Node.js, Express.js, MongoDB, Mongoose, Stripe, Passport.js, REST APIs, Docker, Git, GitHub

- Developed a full-stack event ticketing platform connecting users, performers, and venues through event discovery, ticket purchasing, role-based dashboards, and profile management
- Built backend APIs, authentication flows, event management features, and database models using Node.js, Express.js, MongoDB, and Mongoose
- Integrated Stripe payment functionality and mobile checkout features to support ticket purchases, rewards features, and a smoother user experience across web and mobile platforms
- Contributed to a growing startup project with investor involvement and grant funding opportunities, with the codebase maintained in a private repository available upon request

Grade Submission API

May 2023 – Jun 2023

Java Spring Boot RESTful API

Tools Used: Java, Spring Boot, Spring Security, JWT, REST APIs, MySQL, Maven, Postman, Git, GitHub

Link: <https://github.com/mohamadAlhawamede/Grade-Submission>

- Developed a Java Spring Boot RESTful API for managing student grades across courses, supporting create, read, update, and delete operations through structured HTTP endpoints
- Implemented controller and service-layer logic using Spring framework principles, response entities, HTTP status codes, and organized RESTful architecture
- Added exception handling and validation to manage API errors gracefully, improve reliability, and prevent unexpected failures during grade management operations
- Secured user login and registration using Spring Security, JWT-based authentication, authorization, and validation for protected API resources

EXTRACURRICULAR ACTIVITIES

Ontario Skills Coding Competition Participant

Jun 2024

- Participated in a competitive programming environment, applying coding, debugging, problem-solving, and time management skills under timed conditions
- Strengthened ability to analyze technical problems quickly, develop efficient solutions, and stay focused under pressure

TECHNICAL SKILLS

Languages & Frameworks: Java, C#/.NET Core, Python, JavaScript, TypeScript, Spring Boot, Node.js, Django, React, Next.js, Vue.js, HTML5, CSS3

Databases: PostgreSQL, SQL Server, MySQL, MongoDB, PL/SQL (design, testing, optimization)

Cloud & DevOps: AWS (EC2, S3, RDS), Docker, Git & GitHub, Azure DevOps, CI/CD Pipelines, Jira

Testing & Security: Spring Security, JWT Authentication, Authorization, Role-Based Access Control, Secure API Design, Unit Testing, Integration Testing, QA Automation, Logging, Error Handling