

MUHAMMED SAID ALTAN

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Education

Algonquin College

Sep 2023 – Apr 2025

Web Development and Internet Applications — Dean's Honour List, GPA: 3.77

Ottawa, ON

Relevant Coursework: Full-Stack Development (React, JavaScript), Object-Oriented Programming (C#, Java), Programming Fundamentals (Python), UI/UX Design, Relational Databases (MySQL), Cloud Computing Concepts

Experience

Solace

Sep 2024 – Dec 2024

Full Stack Web Developer Intern

Ottawa, ON

- Engineered a custom JavaScript-based Table of Contents plugin that resolved major navigation pain points, **reducing bounce rate by 42%** and improving content discoverability.
- Took full ownership of an internal campaign microsite—from ideation to deployment—by designing and building a high-fidelity, responsive UI, which resulted in a **50% increase in traffic**.
- Built and maintained responsive front-end components by translating Figma designs into clean, reusable code; ensured cross-browser compatibility and accessibility standards.
- Contributed to cross-functional Agile sprints to enhance key features on the company's **Gatsby** site by implementing performant UI updates and **optimizing GraphQL queries**, which improved Lighthouse SEO scores and reduced page load time.
- Collaborated with marketers, designers, and developers to align web features with business goals, providing frontend solutions that scaled effectively across content-heavy pages.

Projects

PLAB 2 Practice Platform

[Live Demo](#) | [GitHub](#)

- Designed and secured **54+ RESTful APIs** using **Spring Boot** and **JWT-based authentication** with role-based access control, supporting scalable user and session management.
- Implemented a real-time simulation engine with **WebSocket** and **Spring Boot**, enabling concurrent, state-synced multi-user sessions for medical roleplay scenarios.
- Developed **18+ reusable React components** and **3 Redux slices** using **TypeScript** and **Material UI** to build dynamic session views and an intuitive admin panel.
- Containerized the full-stack app using **multi-stage Docker builds** and deployed on **Vercel (frontend)** and **Render (backend)** with **PostgreSQL + Flyway** for production-grade schema migrations.

InterviewPrepAI

[Live Demo](#) | [GitHub](#)

- Deployed a personalized AI interview platform by designing **12 secure RESTful APIs** with **JWT authentication** and **MongoDB data models**, enabling user-specific question generation.
- Delivered a fast, scalable front-end by architecting **9 modular React pages** and reusable components with **TailwindCSS**, improving maintainability and load performance.
- Improved security and user experience by implementing **Google OAuth**, email-based password reset, file upload validation, and robust middleware access control.
- Enhanced content relevance by applying **prompt engineering** techniques to structure user data into meaningful input for the AI engine, resulting in more accurate and tailored interview responses.

Leadership Experience

Bodyblissliz

Jan 2025 – Apr 2025

Project Lead, Capstone Project

Ottawa, ON

- Led a 3-person development team to redesign a small business website from scratch, managing timelines, feedback cycles, and final delivery.
- Coordinated client communications and translated business needs into actionable design and content requirements.

Technical Skills

- Languages:** JavaScript, TypeScript, Java, Python, HTML, CSS, SQL
- Front-End:** React, Redux, Material UI, TailwindCSS, WebSockets, Responsive Design
- Back-End & Tools:** Spring Boot, Node.js, REST APIs, JWT, OAuth 2.0, GraphQL, Git, Docker, Flyway
- Databases & Cloud:** MongoDB, PostgreSQL, Google Cloud Platform, Vercel, Render, CI/CD
- Testing & Practices:** Jest, JUnit 5, React Testing Library, Agile, SDLC