

Mustafa Al-Sakkaf

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EDUCATION

University of Ottawa
Bachelor's, Software Engineering

September 2021 - December 2026
GPA: 9.6

PROJECTS

muslemmy-ui - [Link to project](#)
~50% complete

- Built a web client for a popular open-source social (Lemmy) network using JavaScript, Vue, and Bootstrap CSS
- Interacted extensively with the backend REST APIs (debugged, looked through documentation, resolved CORS issues)
- Fixed a bug in the official open-source UI used by over 66,000 monthly active users

ProjectBuddies - [Link to project](#)

- Developed an online platform for a fictional service-based company with support for internationalization using React
- Was fully involved in the end-to-end cycle consisting of design, UX, QA and ultimately development with a focus on ARIA accessibility
- Used i18next to implement website internationalization for English and French

HotelHub - [Link to project](#)

- Designed a PostgreSQL database and implemented REST API endpoints using Python Django for core hotel management features including room reservation, room addition, and account management
- Containerized the full-stack application using Docker, enabling seamless deployment and development consistency across environments
- Collaborated with frontend developers by documenting all backend API endpoints clearly, accelerating integration and reducing backend-related support issues

PROFESSIONAL EXPERIENCE

Solace

Software Engineering Intern

Ottawa, ON, Canada

January 2023 - November 2023

- Successfully enabled 5+ teams to test their messaging APIs under real-world network conditions by designing an algorithm for configuring a TCP proxy written in Java (similar to C#)
- Made the above tool widely available by creating a type system, containerizing it using Docker and integrating it into an existing library using Testcontainers framework
- Designed zero-code solutions for sales engineers by improving integration of solace software with external systems such as Kafka and RabbitMQ
- Improved deployment time of a core messaging library by 60% by refactoring an old Jenkins CI/CD pipeline using Groovy
- Implemented a feature that enables users to easily scale the number of consumer applications bound to a queue in the Solace Messaging API for Python

Cision

Software Engineering Intern

Ottawa, ON, Canada

May 2022 - August 2022

- Led an organization-wide initiative to instrument data ingestion pipelines processing over 1K article daily by developing OpenTelemetry tracing POCs and presenting findings to 50+ engineers.
- Reduced data intake volume by 50% across AWS components (S3, Kafka, Elasticsearch), lowering load on QA/staging environments.
- Instrumented a multimedia content ingestion REST service for metrics and logs using Prometheus/Grafana and increased test coverage by 10%.
- Developed Spring Cloud Stream microservices for content transformation and enrichment according to requirements from multiple downstream teams, improving overall data processing efficiency.

SKILLS

Skills: JavaScript, Java, REST APIs, HTML/CSS, Python, AWS, Vue.js, Bootstrap, React.js, Node.js, Microservices, TypeScript, Functional Programming