MOHAMAD HAMMOUD

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Education

University of Calgary   Sep 2021 – May 2026
Bachelor of Science in Software Engineering   *Calgary, Alberta*

Technical Skills

Languages: C++, C, C#, Java, Kotlin, Python, JavaScript, SQL, Assembly, Typescript, CSS, HTML.
Developer Tools: Google Cloud, AWS, Git and GitHub, Linux OS, VSCode, Docker, Azure, Rider.
Frameworks: React, Svelte, Vue.js, ASP.NET Core, Spring Boot, Playwright, Jest, Docker Compose, AWS SDK.
Soft Skills: Effective communication, Willing to learn, Problem-solving, Teamwork and collaboration, Attention to detail.
Coursework: Data Structures, Full Stack Web Development, Object-Oriented Principles, Computer Networking.

Experience

Symend   Jan 2024 – Present
Full Stack Developer Intern   *Calgary, Alberta*

- Engineered robust APIs using C#, .NET, and Azure for data extraction from SQL databases.
- Developed and managed Docker environments, achieving consistent application performance across diverse systems.
- Led development of a Svelte-based application, integrating React for dynamic front-end components and showcasing backend functionalities through a user-friendly interface.
- Enhanced code quality through Test-Driven Development (TDD), writing unit tests to ensure reliability in APIs.
- Conducted comprehensive testing using **Playwright** to simulate real-user interactions and validate UI performance, improving the overall user experience.

Schulich UAV   Oct 2021 –June 2024
Full Stack Developer   *Calgary, Alberta*

- Developed engaging web applications with Vue.js, enhancing user experience and interactivity.
- Implemented responsive designs using CSS3 for seamless compatibility across devices and browsers; incorporated JavaScript, APIs, HTML5, CSS3, and Bootstrap for interactive homepage features.
- Played a pivotal role in building a mission-aligned, responsive website, focusing on visually appealing user interfaces with intuitive navigation and seamless user experience.

Projects

Smart Garden IoT | C++, TypeScript, AWS AppSync, GraphQL, IoT Core, ESP-IDF   May 2024

- Developed an Android native app in TypeScript for monitoring and controlling smart garden systems, leveraging AWS AppSync with GraphQL for real-time updates.
- Integrated AWS Lambda functions to facilitate communication between AppSync and AWS IoT Core for efficient data handling between sensors and actuators.
- Programmed the ESP32 S3 microcontroller in C++ (ESP-IDF) to manage sensor data and automate functions.

Flight Booking App | Java, SQL, React   November 2023

- Developed a flight booking application using SQL and Java for backend functionalities, ensuring efficient data management, while employing React and Spring Boot for frontend, enhancing user interface and experience.
- Implemented advanced design techniques, including inheritance and design patterns such as Strategy and Observer.

Wildlife Rescue Schedule Planner | Java, SQL   October 2022

- Developed a versatile scheduling app, streamlining worker allocation and reducing administrative overhead by 90%. Applied object-oriented programming for a maintainable codebase, improving readability and scalability.
- Integrated data from an SQL database for efficient scheduling information retrieval, ensuring seamless user experience. Designed an intuitive GUI for schedule creation and management, enhancing usability.

Lotion | React, JavaScript, AWS S3, CSS   July 2022

- Developed Lotion using Python, React, and Terraform, leveraging infrastructure as code principles to seamlessly sync with your AWS account. Implemented an autonomous system within "Lotion" that generates S3 buckets, providing effortless hosting for notes and ensuring an elegant user experience.

Wordle Game | JavaScript, React, Tailwind, Google Place API, Next.js   December 2021

- Developed the engaging game "Wordle" using JavaScript, HTML, and CSS, integrating an API endpoint to fetch words and generate hints for an immersive gameplay experience.
- Implemented a dynamic dark mode feature in "Wordle," enhancing user experience and allowing seamless transitions between light and dark themes.