

Sergio Najm

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EDUCATION

McGill University

Bachelor of Arts in Computer Science, Minor in Statistics

Montreal, QC, Canada

Sept. 2021 – April 2025

EXPERIENCE

Software Developer Intern

Coveo

Sept. 2023 – Dec. 2023

Montreal, QC, Canada

- Building Java Spring Boot microservices to provide e-commerce merchants with actionable insights into customer behaviors
- Managing and optimizing applications on AWS, ensuring robust and scalable service delivery with Docker and Kubernetes

Software Developer Intern

IBM

May 2023 – Aug. 2023

Montreal, QC, Canada

- Streamlined robotics operations using Python, ROS, and Docker, leading to a 20% reduction in time taken for fire hazard inspections in industrial areas
- Employed Detectron2 for enhanced object detection, achieving a 45% increase in fire hazard identification accuracy in industrial sites
- Developed a React and Node.js dashboard to streamline robot assignments and expedite hazard notifications

Software Developer Intern

SpaceBridge Inc.

June 2022 – Aug. 2022

Montreal, QC, Canada

- Developed an automated test suite using Python for quality testing of satellite communication channels
- Reduced hardware testing time from 4 months to under 48 hours by replacing old manual testing standards with automated ones
- Reduced the time that it takes to diagnose system bugs by over 60%

LEADERSHIP EXPERIENCE

Vice President of Web Development, Hackathon Committee

CodeJam

June. 2023 – Dec. 2023

Montreal, QC, Canada

- Led a 6-person team to design and develop a full-stack application to serve as a central hub for hackathon participants; enabling streamlined application, registration, real-time messaging, and showcasing of projects
- Oversaw the end-to-end design and coding of the platform, ensuring seamless event coordination and participant experience
- Conducted code reviews, reinforcing best practices and ensuring optimal code quality
- Facilitated regular team meetings to maintain alignment, set milestones, and drive project progress

PROJECTS

Emotion.ly - Emotion Based Playlist Generator ([GitHub](#)) | *React, Flask, Spotify API, Python NLTK*

- Built a web application that creates a music playlist based on emotions extracted from user text input, leveraging React for frontend and Flask for backend
- Implemented sentiment analysis on user-provided text to extract emotional context, driving personalized music recommendations

Simple Simulated OS ([GitHub](#)) | *C, Make*

- Built a simple operating system in C implementing a simulated shell, process scheduler, and memory management system
- Extended the job scheduler's functionality to accommodate different scheduling algorithms such as shortest job first and round robin while also adding multithreaded functionality

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, TypeScript, HTML/CSS, R, Bash, SQL

Technologies: React, Next.js, Node.js, Express.js, Spring Boot, Flask, MongoDB, PostgreSQL

Tools: Git, Docker, Kubernetes, AWS, GCP, Jenkins