

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

Incoming Software Developer Intern

Coveo

Sept. 2023 – Dec. 2023

Montreal, QC, Canada

- Will work on migrating multi-cloud GCP/AWS environment to AWS only.
- Expected to refactor Golang and Typescript microservices to Java.

Fullstack Developer

CodeJam

June 2023 – Dec. 2023

Montreal, QC, Canada

- Working as a full-stack developer within a team of 7 people to develop a fully-featured website that will be a hub for hundreds of participants during a weekend-long hackathon.

Software Developer Intern

IBM

May 2023 – Aug. 2023

Montreal, QC, Canada

- Utilized Python, ROS, and Docker for efficient coordination and orchestration of a self-contained robotics system capable of continuously inspecting dangerous work sites.
- Integrated computer vision and machine learning models for accurate anomaly detection in industrial sites.
- Implemented SLAM algorithms for autonomous mapping and navigation.
- Developed a full-stack dashboard for assigning tasks for the robot and reporting found anomalies.

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.
- Designed a user-friendly Jenkins interface with over 20 customizable test parameters to streamline test execution.
- Reduced the time that it takes to diagnose system bugs by over 60%.

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.
- * Integrated with Spotify API, translating extracted emotions into API parameters for tailored playlist curation.

Bakery E-commerce Website ([GitHub](#)) | *Next.js, Javascript, Sanity CMS, Stripe, TailwindCSS*

- * Built an e-commerce website for a bakery using Next.js, integrating Sanity CMS for seamless content management and Stripe for secure payment processing.

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

Technologies: React, Next.js, Node.js, Express.js, Flask, Git, Docker, Kubernetes, AWS, GCP, Jenkins