Sergio Najm

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EDUCATION

McGill University   Montreal, Qc, Canada
Bachelor of Arts in Computer Science, Minor in Statistics   *Sept. 2021 – Dec. 2024*

Vanier College   Montreal, Qc, Canada
Diploma of College Studies in Commerce   *Aug. 2019 – May. 2021*

EXPERIENCE

Software Developer Intern   June 2022 – Aug. 2022
SpaceBridge Inc.   *Saint-Laurent, QC, Canada*

- Developed an **automated test suite** using **python** for quality testing of satellite communication channels.
- Used **REST APIs** to configure system information and interact with a Network Management System.
- Collaborated within the Verification & Validation team using **Git, JIRA, and Confluence** to build testing software for satellite communication hardware.
- Reduced hardware testing time from **4 months to under 48 hours.**
- Designed a user-friendly **Jenkins** interface with **over 20 customizable** test parameters to streamline test execution
- Built **scalable and reusable** testing software to easily reproduce testing conditions for **easier bug detection**.
- Reduced the time that it takes to diagnose system bugs by **over 60%**.

Used: Python, Bash, Jenkins, JavaScript, REST & SOAP APIs

Software Team Member, Autonomous Underwater Vehicle   Sep. 2022 – Present
McGill University Robotics Team   *Montreal, Qc, Canada*

- Collaborated with more than a dozen team members in the development of software for an autonomous underwater vehicle used in international competition.

PROJECTS

Personal Website | *TypeScript, React, Next.js, TailwindCSS, Framer Motion, Git*   Nov. 2022
* Built a portfolio website using Next.js to provide users with lightning-fast loading times.
* Used modern UI frameworks such as Framer Motion to animate elements.

Trivia Game | *JavaScript, HTML, CSS, React, Bootstrap, Git*   Sept. 2022
* Developed a trivia web application using React as the front end.
* Used question data from The Open Trivia Database API to serve users with interesting questions from 8 different categories.

McGill Course information API | *Node.js, Express.js, MongoDB, Git*   Nov. 2022
* Built a web scraper to retrieve course information data from various official McGill websites to serve users with up-to-date details regarding course prerequisites, descriptions, and scheduling.
* Built as a part of an in-progress team project that consists of developing a better short and long-term course scheduler for McGill students.

Digital Moment Discussion Forum | *Javascript, React, Material UI, Node.js, Express.js, MongoDB*   Nov. 2022
* Built as part of Morgan Stanley's Code to Give Hackathon.
* Collaborated with a team of 7 people to build a modern and responsive full-stack web application that encourages youth from all around the world to contribute challenges and ideas.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, TypeScript, HTML/CSS, R
Frameworks: React, Next.js, Node.js, Flask, Material-UI, Bootstrap, TailwindCSS, Express.js
Developer Tools: Git, Bash, Jira, Confluence, Jenkins