

Sam Mobed

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EDUCATION

McGill University

Bachelor of Arts in Computer Science, Minor in Statistics

GPA: 3.50/4.00, Expected Graduation: December 2024

Vanier College

Cegep Diploma: Commerce and Business Administration

Montréal, QC, Canada

Sept. 2021 - Present

Saint-Laurent, QC, Canada

Aug. 2019 - May 2021

EXPERIENCE

High Performance Computing Solutions Intern

Shared Services Canada

January 2023 – Present

Montréal, QC, Canada

- Developed and implemented **Python and Bash scripts** to automate monitoring and maintenance operations for hundreds of nodes across diverse clusters.
- Leveraged technologies such as the **ELK Stack, Icinga, Telegraf, and Grafana** to collect and query data, check availability of resources, and visualize data.
- Performed **thorough testing and debugging of scripts**, focusing on optimizing performance, ensuring maintainability, and improving code quality.

Incident Coordination Intern

Shared Services Canada

June 2022 – December 2022

Montréal, QC, Canada

- Handled technical incidents by analyzing and classifying incoming tickets and proactively engaging the appropriate response teams for prompt resolution.
- Managed ongoing and archived tickets and conducted in-depth evaluations of IT processes to identify areas for improvement.

Sponsorship Coordinator

HackMcGill's McHacks, McGill University

May 2022 – February 2023

Montréal, QC, Canada

- Networked with businesses and community organizations, conducting engaging and informative sales presentations to prospective sponsors, carefully evaluating their specific needs to then offer the most suitable sponsorship packages.

PROJECTS

Realtime Encrypted Chatroom ([GitHub](#)) | *Javascript, Node.js, Express.js, EJS, MongoDB, Docker* May 2023

- Developed a full stack app where users can signup and create chatrooms with other users, and all communication is secured with the implementation of **crystals-kyber**, a post-quantum key exchange protocol and **AES** encryption.
- Implemented real-time communication between the server and clients using **socket.io** & enhanced security by adding user authentication using **JWTs** while also securely storing passwords and logs through bcrypt hashing.
- Containerized the application through **Docker** and deployed it on **AWS**, ensuring high accessibility and scalability.

MISA Website ([GitHub](#)) | *Next.js 13, TypeScript, Sanity.io, TailwindCSS* May 2023

- Designed and developed the official website for the McGill Iranian Student Association, ensuring a seamless user experience and visual appeal.
- Implemented a robust **Content Management System (CMS)** to facilitate effortless updates and content management for the website.

Emotion Based Playlist Generator ([GitHub](#)) | *React, Flask, Spotify API, Python NLTK* December 2022

- Developed a web app that generates a personalized music playlist based on emotions conveyed in user text input; built as part of the McGill CodeJam Hackathon in collaboration with three other participants.

Digital Moment Discussion Forum ([GitHub](#)) | *React, Material UI, Express.js, MongoDB* November 2022

- Collaborated with a team of 7 people to build a full-stack web application that encourages the youth to discuss challenges and ideas; built as part of Morgan Stanley's Code to Give Hackathon.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, JavaScript, TypeScript, HTML/CSS, R, OCaml

Frameworks: Next.js, React, Node.js, Express.js, ASP.NET

Developer Tools: Git, Bash, AWS, Docker, Kubernetes, LaTeX

Command line: Unix-based systems (Linux, MacOS, etc.), Windows PowerShell