Carl Machaalani

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EDUCATION

B.S. Computer Science and Statistics   Sept 2019 - Dec 2023
McGill University - GPA:3.96
Coursework: Algorithms & Data Structures, Operating Systems, Relational Databases, Statistics, Discrete Structures

WORK EXPERIENCE

AI BACKEND DEVELOPER INTERN | Intact, Montreal QC   May 2022 – Present
- Developed **REST API** endpoints for an existing application in an **Agile environment** using **Python and AWS**.
- Implemented test-driven development (**TDD**) for the new backend API features using **Pytest**.
- Improved **CI/CD** Gitlab pipelines of an existing project, resulting in a 60% decrease of unexpected bugs in production.

FULL STACK DEVELOPER INTERN | Société Générale, Montreal QC   Sept 2021 – Apr 2022
- Developed a POC web application to help HR easily manage and track job descriptions using **AngularJS and Java Spring**, resulting in 50% improvement in HR's recruiting speed.
- Led weekly meetings with HR to analyze user needs and determine the scope of the project.
- Designed the **relational database** architecture and coded the **REST API** endpoints accordingly using **Java Spring**.
- Developed the UI components for the MVP including tables, carousels, and forms using **AngularJS and Bootstrap**.

CO-FOUNDER & LEAD DEVELOPER | Bricklayers Studio   Nov 2021 – Present
- Co-founded Bricklayers Studio, a student run club that provides web development services to small businesses and an opportunity for students to gain professional experience.
- Developed the frontend UI of a **dynamic art portfolio website** using **HTML/CSS and ReactJS**, including navigation bars and animations, increasing the artist's work reach to over 200 people.
- Redesigned and built a website for **McGill Arab Student Network** using **HTML/CSS, JavaScript, and TailwindCSS**.

SOFTWARE DEVELOPER INTERN | Apollo DAE Inc., New York US   Jan 2021 - Aug 2021
- Collaborated closely with a team of 4 interns to build and design an audio collecting application for speech-to-text implementation using **HTML/CSS, React, and Typescript**.
- Led daily meetings with UI/UX designers and developers to discuss the progress of the application's development.

TEAM MENTOR | McGill Faculty of Science, Montreal QC   Jan 2021 - Aug 2021
- Held weekly office hours for Foundations of Programming: Python available for over 600 students.
- Managed tutorials to help struggling students with homework and to better understand programming concepts.

PROJECTS

STREAMLINE ⬈   ReactJS, Stripe API, HTML/CSS, Firebase
- Led team of 4 to develop **QR point of sale platform** to streamline the ordering process and improve customer adaption at 5 restaurants. Received mentorship and grant funding from Mcgill Engine accelerator.
- Developed the frontend connections to backend, and coded UI components including navigation bars and modals.

SMART ALERT ⬈   Android Studio, Java, Firebase
- Collaborated with 3 students to design and develop an **Android app** for **McHacks 2021 Hackathon** that alerts people with hearing loss that their fire alarm has been activated.
- Contributed to the UI/UX design and login authentication code using **ReactJS, Firebase, and OAuth2**.

SKILLS

Programming Languages: Python, Java, Javascript, Typescript, SQL, HTML/CSS, C, Bash
Languages: English (Fluent), French (Fluent), Arabic (Fluent)
Frameworks/Tools: AWS, React, Angular, Nodejs, Spring, NestJS, PyTest, Git/Github, Gitlab CICD, Firebase, Svelte, Bootstrap