

ANTHONY MASSAAD

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EDUCATION

Carleton University

Bachelor of Software Engineering with Co-op

- CGPA: 10.25/12 (A-)

September 2019 – April 2024

Ottawa, ON

SKILLS

Languages: JavaScript, Python, HTML, CSS, PHP, Java, C, SQL, JSON, XML, Ejs, Makefile

Tools & Frameworks: Git, NoSQL, Linux, IntelliJ, Visual Studio Code, PyCharm, Node.js, Express, Socket.io, React, TypeScript, SCSS, Next.js, UNIX, React-Native, Docker, Jira, Prisma, Spring Boot, Expo

WORK EXPERIENCES

Irdeto

Software Developer

April 2023 – September 2023

Ottawa, Ontario

- Worked with the Irdeto Reference Cloud App (IRCA) team in developing a web application using Next.js and TypeScript.
- Worked with Amazon Web Service (AWS) to host the website, Microsoft Azure to host the database and Auth0 for authentication.
- Implemented many web pages with internationalization to adapt to the customer's preferred language.
- Also contributed to creating an internal component library for Irdeto using TypeScript to have pre-defined web components and functionalities that will assist in web development at Irdeto.

Elections Canada

Website Designer and Developer

November 2022 – October 2023

Ottawa, Ontario

- Worked on a new website branch, Digital Enterprise Transformation Branch (DETB) using HTML, CSS, and JavaScript.
- Have weekly meetings with key stakeholders to discuss their requirements to design and develop their webpages.
- Created a script file for animating components on web pages using JavaScript.

Irdeto

Software Developer

September 2022 – January 2023

Ottawa, Ontario

- Provided manual assistance in maintaining the test framework and machines.
- Improved the logger implementation using python in one of Irdeto's software components, which enhance the logs more efficiently and effectively. This allows debugging to be much easier.
- Aided in one of the major product releases to a client, which resulted in developing in C and Makefile to support a dialect.
- In a team collaboration during corporate hackathon, we developed a slack bot using python to help track Merge Requests (MR) from GitLab.

Elections Canada

Website Designer and Developer

January 2022 – August 2022

Ottawa, Ontario

- Using web programming languages (HTML, CSS, JavaScript, and JavaScript libraries), I develop webpages for different teams across the Digital Transformation Branch.
- Have weekly meetings with key stakeholders to discuss their requirements to design and develop their webpages.
- Developed a search algorithm for the Digital Transformation Branch to locate content much easier.
- Create a custom style sheet and JavaScript file for the Digital Transformation Branch, which allows any developer to easily create custom components and animations.

PROJECTS

Music Genre Classifier ([GitHub Link](#)) — Python, Machine Learning, Deep Learning, Transfer Learning

Apr. 2024

- Developed a machine learning model using a combination of Convolutional Neural Network and a Support Machine Vector to classify audio files to their Genres.
- Used Transfer Learning through a pretrained model tuned to work with the problem at hand.
- Used tuning techniques like Grid Search to optimize both models for better performance.

Access Control System ([GitHub Link](#)) — Python, JSON, RBAC, Access Control Matrix

Sept. 2023

- Simulates a simple login system for Finvest Holdings that allows users to register, and login based on their various roles. The users are given different permissions based on their roles.
- User Credentials are secured and hashed with a 32-byte salt. System also enforces password rules for strong passwords.

Real-Time Elevator Simulator ([GitHub Link](#)) — Java, UDP, State Machine Design Pattern

Jan. 2023

- Simulated a real-time elevator control system using Java threads, while following the state design pattern
- Utilized the User Datagram Protocol (UDP) to connect the separate components (floor, scheduler, and elevators) through the network. Either the components can be on the same machine, or separate machine if address is specified.