

MOHAMAD ADDASI

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Education

Concordia University

Expected Graduation: Apr 2027

Bachelor of Engineering in Software Engineering CO-OP

Montreal, QC

- Courses: Object-Oriented Programming 1, Object-Oriented Programming 2, Operating Systems, Algorithms and Data Structures, Supervised Machine Learning: Regression and Classification, Web Programming

Work Experience

Pratt & Whitney Canada

Sep 2024 – Present

Data Science Intern

Longueuil, QC

- Performed data analysis on **280,000,000+** entries in **Python**, enhancing client insights, **saving 15 hours monthly** in decision-making
- Created a **Python** script with a UI to expedite Excel data entry, **reducing** the time per entry by **75%**, saving clients up to **39 workdays annually**
- Enhanced large dataset by filtering duplicates by **100%** using **Pyspark**, which reduced data processing by **30%**

HackConcordia

Apr 2024 – Present

Backend Software Engineer

Montreal, QC

- Optimized **MongoDB** database for **3000+** users, ensuring secure and efficient information storage
- Streamlined event check-in using **TypeScript** generating secure QR codes, saving **4.5 hours across 800 participants**
- Developed an admin panel with **NextJS** and **TypeScript**, enabling efficient assignment and review of applications, reducing admin workload by **10+** hours weekly

Projects

Registration Website | Website

NextJS | TypeScript | MongoDB | Azure

- Constructed a login system for ConUHacks 9 registration website, integrating callback functions for different providers, **enhancing** login efficiency and speeds by **150%**
- Devised **JWT token management** to reflect user status in the application process dynamically, optimizing session handling and improving status display times by **50%**
- Implemented **Redis-based** rate limiting to enhance security and reduce API abuse, achieving a **25% decrease** in infrastructure costs

Mailing List | Website

NextJS | TypeScript | MongoDB

- Enhanced ConUHacks 9 mailing list system by **restructuring** database collections and **segregating** verified and unverified emails, resulting in a **65% increase** in document retrieval speed
- Optimized database interactions using **MongoDB** to enhance efficiency in managing over **500** subscriber records; achieved a **reduction in query response time by 50%**

Fluent Fingers | Source Code

Tensorflow | Scikit-Learn | Python

- Developed a Duolingo-like ASL app with **TensorFlow-powered CNNs** for gesture recognition, enabling interactive learning and saving users **5 days** annually
- Crafted a Python script to track hand movements using **Python libraries** and node landmarks, **boosting** model accuracy by **30%**

Leadership

McHacks 11 | Devpost

Jan 2024

- Managed a team to **3rd** place out of **600+** participants, in McGill's largest 24-hour hackathon

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, C++

Developer Tools: Azure, Postman, PowerBI, Git, Azure, Jira, Databricks

Libraries/Frameworks: NextJS, ReactJS, NodeJS, MongoDB, Pyspark, Scikit-Learn, Tensorflow