AMIR AFZALI

(647) 898-2647 | amir@afzali.ca | linkedin.com/in/amirafzali | github.com/amirafzali

EDUCATION

McMaster University - Hamilton, ON

Expected April 2023

Bachelor of Engineering, Software Engineering - CGPA: 3.8/4.0

• Related Coursework: Data Structures & Algorithms, Operating Systems, Software Design, Computer Architecture

EXPERIENCE

Facebook August 2021 – November 2021

Incoming Software Engineer Intern

Menlo Park, CA

Akuna Capital June 2021 – August 2021

Incoming Software Engineer Intern

Chicago, IL

McMaster University
Undergraduate Teaching Assistant
September 2020 – April 2021
Hamilton, ON

• Taught the empirical analysis of runtime and space complexity for various data structures and algorithms

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Led weekly labs and performed code walkthroughs for algorithm implementation in Python and Java
Automated the marking of 200+ student coding assignments through testing with Pytest and JUnit

Loadlink Technologies June 2020 – August 2020

Software Engineer Intern Toronto, ON

• Developed a real-time notification delivery API to drive 250k+ push notifications per day, using .NET and Redis

• Independently created an **Angular** web app to prototype two-way communication through **SignalR** WebSockets

• Minimized the size of web notification payloads by up to 75% by implementing a key-based message retrieval API

Alstom May 2019 – August 2019

Software Engineer Intern

Toronto, ON

- Built a **Python** based XML parser that extracts equipment work procedures and returns a configurable **CSV** output, saving over **300** hours of manual work time per year
- Created a responsive data visualization dashboard for tracking project progress, using React, Redux, and Chart.js
- Overhauled functionality on the task management tool by creating RESTful APIs with Node.js and Express.js
- Improved query performance on over 500k MongoDB documents by pre-aggregating frequently used statistics

LEADERSHIP

DeltaHacks May 2019 – June 2021

Technical Lead Hamilton, ON

- Managed a team of 8 developers and organized a university hackathon of over 850 participants
- Led the development of full stack apps for the attendee and judging platforms, facilitating the submission and marking of over **4000** unique applications, using **TypeScript** and **Firebase**
- Created front-end components that update in real-time following database changes, with Vue.is and Vuex

TECHNICAL SKILLS

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

Frameworks: Node.js, React, Vue.js, Express.js, Flask, Selenium, MongoDB, MySQL, Firebase, Bash

PROJECTS

Citation Scraper | GitHub

March 2020

- Created a news article web scraper that extracts citation information, using Python and BeautifulSoup4
- Implemented a tag priority system that yields a 98% accuracy rate on over 100 major news sites, by determining which HTML fields are most likely to contain correct citation data

ChatApp | GitHub January 2019

- Built an iOS mobile application that allows for sending and receiving image messages, using Swift
- · Implemented SMS verification and account authentication through the Twilio API on a PHP backend with MySQL