ANDREW TA

SOFTWARE ENGINEERING

✉ andrew.ta@mail.mcgill.ca

📞 438 828 3417

📍 3566 Lorne, Montreal, QC H2X2A6

in linkedin.com/in/andrewta99

in andrewta999.github.io

SKILLS

Java, Python, JavaScript, C++

Object-Oriented Programming

HTML, CSS, React.js, Node.js,

MySQL, PostgreSQL, MongoDB

Git, Docker, Kubernetes

Linux, Ubuntu, Redis

Cloud computing, AWS, Azure

EDUCATION

Bachelor of Engineering Software Engineering

McGill University, QC, Canada

Sept 2018 – May 2022

CGPA: 3.94/4.0

AWARDS

2018-2020 Dean's Honor List McGill Engineering Faculty

COURSES

Data structures and Algorithms
Programming Paradigm
Model-based Programming
Computer Organization
Intro to Software Engineering
Database systems
Operating systems

PROFESSIONAL SUMMARY

I am interested in building large-scale software systems and using modern tools to solve problems. I have been academically and professional working in Java, Python, and JavaScript for more than 3 years. I also have a good knowledge of the software project lifecycle and how to start up a project or bring up new ideas to teams.

WORK EXPERIENCE

FULL STACK DEVELOPER INTERNSHIP

Ciena Corporation, Canada / September 2020 – December 2020

- Involved in building a Restful API using Python and Flask web framework to automate and process data generated from the company's lab instruments
- used SQL and PostgreSQL server to store all data generated from the instruments; used JavaScript and React framework to build a frontend web interface that fetches data from the API
- containerized the project using Docker and deployed it on a Kubernetes cluster hosted by lab computers
- removed the need for a third-party software and saved the company more than 100 thousand dollars spent on it each year

Whatsnew365 – TWEETS STREAMING PROJECT

Personal Project / Fall 2020

- built a web platform that simultaneously streams tweets of different topics provided by keywords; users can view many live streams of tweets from Twitter to see what is happening around the world
- used Node.js and JavaScript to build the server that connects to Twitter API and requests tweet streams of topics and keywords provided from the users
- used React framework and JavaScript to build a web interface that simultaneously displays live tweets of different topics

TEAM PROJECT

Software Engineering / January 2020 – April 2020

- collaborated with 4 students to develop a website and mobile app that allows users to post their pets' profiles for adoption or apply to adopt pets
- followed a professional agile software engineering workflow; built a CI/CD pipeline to automate testing and deployment and used Object-Oriented techniques to design the project
- used Vue.js to build the front-end; used Spring Framework and relational database PostgreSQL to build the backend.
- wrote maintainable and understandable unit tests and integration tests for both the frontend and the backend.