

Minh Thong Mai

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Education

Carleton University

Bachelor of Computer Science Co-op

CGPA: 11.63/12 (A+). On Dean's Honour List since 2019.

Ottawa, Ontario, Canada

Sept 2019 – Dec 2023 (Expected)

Experience

Software Developer Co-op

Knak

Sept 2022 – Apr 2023

- Participated to API standards refactoring discussions within integration team applying proof of concept of API schema validation using OpenApi specification; ensuring internal and external APIs are consistent and readable
- Applied new dark mode and light mode designs to the current UI using Vue and SCSS variables; improving monthly active users by 11%
- Developed and deployed features' flag management service by creating user interface and API end points using PHP, Laravel, Docker and AWS; helping 16 team members efficiently manage development process

Data Analyst Co-op

Innovapost

Apr 2022 – Aug 2022

- Designed and implemented data model for a data catalog project using ER modelling; improved the data consistency and maintainability, served 100+ data analysts across the entire Canada Post group of companies
- Converted existing technical design spreadsheets from Confluence to metadata intake standard using Python, Pandas; resulted in a consistent source for the next phase of the project
- Automated the data loading pipeline system to the database using Python and TearadataSQL library; increased the accuracy and processing time of initial loads and ongoing updates from few hours to under 1 minute

Tooling and Performance Co-op

Nokia

May 2021 – Dec 2021

- Made login by Azure AD on Nokia Application Monitoring Platform (NAMP) more prominent by modifying the default login page of Grafana written in React; increased the attention of users to Azure login option by 90%
- Created auto-enrollment dashboard in NAMP user interface using Javascript, Python, Flask and SQL allowing a user to edit an application's information directly; decreased processing time from 1 day to few minutes
- Debugged URLs' fetching errors when doing tests in a server running in Linux environment; improved the percentage of passed tests from around 60% to over 85%
- Converted PowerShell script that fetches data from Azure Service to Python with a distributed crawling system integration, then containerized it using Docker; optimized running time by 90 times (from 45 mins to 45 secs)

Software Developer Volunteer

CU Blueprint

Sept 2021 – Dec 2021

Beneficent CRM 

- Participated in an Agile team of 8 developers, building a CRM web application for a non-profit organization using React, TypeScript and CSS, building a user-friendly UI; improved their service processing time by 90%

Teaching Assistant

Carleton University

Sept 2020 – Current

COMP 2804 Discrete Structure, COMP 2404 Intro to Software Engineer (C++, OOP)

- Organized weekly office hours to help professors guide more than 1500 students through materials of discrete math, C++ and OOP, graded and provided constructive criticism for students' assignments and tests

Projects

Chess AI

Python, Flask, JavaScript, React, HTML, CSS

- Collaborated with a team of 3 students to build a web application with AI integration written in React, Python and Flask API allowing users to play chess with AI, achieved a grade of 99% ranking top 5% of the class

The Movie Database

Javascript, HTML, RESTful APIs, Node.js, Express.js, MongoDB

- Developed a full stack Movie Database web application using Javascript, Node.js, Express.js, MongoDB then applying E2E testing, so improved the robustness and reliability of program and achieved a grade 95%

Skills

Languages: Python, JavaScript, TypeScript, C/C++, Java, PHP, HTML, SQL

Technologies: Vue, React, Node.js, Express.js, Laravel, Flask, CSS, Git, Linux, AWS