

Minh Thong Mai

tommai@cmail.carleton.ca | (437) 216-3555 | minhthongmai.com | github.com/MinhThong14 | linkedin.com/in/tom-mai

EDUCATION

Carleton University

Ottawa, Ontario, Canada

Honours Bachelor of Computer Science Co-op

CGPA: 11.65/12 (A+)

Sept 2019 – Dec 2023 (Expected)

- Carleton Deans Honour List in 2019, 2020, 2021
- Nominated in Golden Key Society for top 15% students in Faculty of Science in 2019, 2020, 2021

SKILLS

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

Frameworks, Libraries & Tools: Vue, React, Node, Express, Flask, Linux, Pandas, AWS, Docker, K8s, gRPC, Git, Postman, Vim

EXPERIENCE

Software Developer Co-op

Knak, Ottawa, ON, Canada

Sept 2022 – Apr 2023

Technologies: PHP, Laravel, SQL, Vue, TypeScript, SCSS, WYSIWYG, AWS, Docker, Kubernetes

- Reduced users' wait times by 10-15 secs by applying K8s custom controllers and resources to predict future load
- Developed & deployed features' flag management service to AWS S3 using PHP, Laravel, Docker, used by 16+ users
- Built new dark/light mode feature using Vue, SCSS and E2E test, improved monthly active users by 11%
- Integrated brands' colours from user assets to TinyMCE using Vue, realized an estimated new contracts of \$350,000

Data Analyst Co-op

Innovapost, Ottawa, ON, Canada

Apr 2022 – Aug 2022

Technologies: Python, Pandas, Jupyter Notebook, SQL, TeradataSQL, ER Model, E2E Testing

- Automated data pipeline to database using Python and TeradataSQL, decreased average processing time by 70%
- Implemented & owned data model for a data catalog project using ER modelling, used by 100+ users
- Increased E2E tests coverage by 20% for data processing service transforming raw data to metadata intake standard

Full Stack Developer (Tooling and Performance Co-op)

Nokia, Ottawa, ON, Canada

May 2021 – Dec 2021

Technologies: Python, JavaScript, Bash, Linux, Flask, API, Docker, React, HTML, CSS, Grafana

- Proposed & utilized distributed crawling system to optimize data fetching scripts from Azure service using Python, resulted in an additional of 70% performance gain
- Debugged URL's fetching errors on Linux server, increased unit tests coverage by 15%
- Built an auto-enrollment service allowing users to edit applications' info directly using Javascript, Python, Flask and SQL, decreased average support time by 70%
- Created live visualization dashboard in Grafana to monitor servers' performance using Javascript, SQL, provided visibility into the performance of servers in clusters

Software Developer Volunteer (Beneficent CRM)

CU Blueprint, Ottawa, ON, Canada

Sept 2021 – Dec 2021

- Contributed to a CRM web app for a non-profit organization using React, enhanced service processing time by 90%

Teaching Assistant

Carleton University, Ottawa, ON, Canada

Sept 2020 – Current

- Organized weekly office hours to guide 1000+ students through materials of discrete math, C++, OOP

PROJECTS

Distributed MapReduce System

Go, gRPC

- Implemented a distributed MapReduce system consisting of a coordinator and a worker executing in parallel via RPC
- Specified map/reduce functions to generate and merge a set of key/value pairs, utilized resources of a large distributed system

Cranial Stimulation Device Simulator

C++, QMake, Qt, Agile

- Developed a medical simulator device to simulate a cranial electrical device functionalities using C++ and Qt
- Collaborated in an agile team of 4 worked through a full software development life cycle, achieved a grade of 95%

MyPocket

React.js, Node.js, Express.js, MongoDB

- Created a private asset repository application, allowed users upload, store and share files with friends via shared links