Mississauga, ON
416-825-6915
tuandinhmai@gmail.com

Tuan Mai

linkedin.com/in/Tuan-Mai
github.com/Tuan-Mai
Tuan-Mai.github.io

Experience

Canadian Imperial Bank of Commerce (CIBC) — **Toronto, ON**
Full Stack Developer — **May 2021 – Present**

- Working in a team of 4 to design, develop, and manage a proof of concept application from start to finish.
- Deployed onto production environment contained in OpenShift utilizing Jenkins CI/CD pipelines.
- Designed and developed full-stack web applications which searched, processed, analyzed, and rendered data based on business requirements.
- Worked on backend and frontend while liaised with QA, PMs, and Directors as needed, ensuring application security met company standards.
- Responsible for API design and development of RESTful services in **Go** to integrate with multiple corporation enterprise products, APIs, and databases. Implemented a new **Angular** client for users.
- Improved users' time on page from previous workflow by ~20%.

Canadian Imperial Bank of Commerce (CIBC) — **Toronto, ON**
Data Engineer — **Feb. 2021 – June 2021**

- Translated Hive to **Scala** ETL scripts to increase efficiency when running against 5 billion records.
- Wrote unit tests to cover a range of functionality permutation with at least 90% coverage for validity.

Encore Market Engagement — **Oakville, ON**
Application Developer — **Jan. 2016 – Dec. 2018**

- Led a team of 4 to design and develop a solution for a current retail market management bottleneck.
- Implemented an iOS application (**Swift**) that utilizes machine learning and computer vision (OpenCV) by training object detector algorithms in MATLAB to detect distinct objects of interest.
- Enhanced sales representatives' routine and increased their efficiency by 12.5%.

Sheridan College – Centre for Mobile Innovation (CMI) — **Oakville, ON**
Academic Researcher — **Jan. 2015 – Dec. 2015**

- Researched different wearable technology to incorporate into academia to help improve proficiency and health of students while encouraging learning.

Projects

Augmented Reality Visualization System of DICOM Files – Undergraduate Thesis:

- Researched and built an interactive AR visualization application of patient diagnostic images allowing medical professionals to improve preoperative procedural planning.
- Collaborated with urologists to get in depth understandings and to better meet needs.
- Wrote an efficient **DICOM** reader in **C#** to extract necessary data from patient diagnostic images.
- Manipulated the byte data to create images and render into a 3D model; models are interactive on all spatial planes for viewing and collaboration on the Microsoft HoloLens (Unity).

Education

Sheridan College — **Oakville, ON**
Honours Bachelor of Computer Science — **Sept. 2014 – Apr. 2019**

Languages and Technologies

- Go Programming Language; C#; Java; Swift; Angular; Scala; SQL; DICOM; MATLAB,
- Jenkins; OpenShift; Docker; Dremio; Computer Vision; Unity;