

Max Pham

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EDUCATION

- **University of Toronto**

- *Computer Science Specialist — Focus in Computer Systems* *Sep. 2017 – May. 2022*
 - **Completed:** Computer Organization, Introduction to Software Engineering, Programming on the Web, Principles of Programming Languages
 - **In-progress:** Introduction to Databases, Operating Systems, Engineering Large Software Systems, Algorithm Design, Analysis & Complexity

PROGRAMMING SKILLS

- **Languages:** Python, C, Java, JavaScript, Racket
- **Technologies:** RESTful, Unix, Git, Flask, Express, MongoDB, React, NodeJS, Heroku

RELEVANT PROJECTS

- **Ontario Lease Wizard [JS + Python]**

- *Back-end Developer/Co-lead, Unit Tester, QA* *September 2019 - December 2019*
 - Partner with Design and Co, a non-profit Organization, to produce a more user-friendly and transparent platform for Landlords/Tenants to sign new leases. Participated in communication with Partners, as well as take on facilitator role to make sure the project goes as plan.
 - Responsible for the PDF formulation system using Python. Took part in infrastructural backend, serving React with Flask. Partaking in webpage application from Figma prototype.

- **Portal [React + Express + MongoDB]**

- *Project* *September 2019 - Ongoing*
 - Designed and deployed the APP on Heroku. Adhering to RESTful principle for future open-source applications. Data collected from University of Toronto Calendar and with Reddit's related posts, the data is persisted on Atlas@mongoDB. Developed the front-end with React and Tailwind + Backend is supported by Express server.
 - **Current Development:** Adding support for Programs @UofT and other schools. Systematically update database on an annual basis.

- **unZucc.me [Python + HTML + CSS]**

- *Hackathon Project @ Citizen Hacks* *September 2019*
 - Utilized AGEITGEY's facial recognition API model to locate faces. Applied masking of random Gaussian noise on top with Numpy and CV2 libraries. Designed and locally deployed the app through Flask.
 - **Current Development:** Fully deploy app on Heroku. Training home-made facial recognition and GAN models. Support realtime masking.

- **feed.me [Python + Java]**

- *Hackathon Project @ NewHacks | Placed 2nd in Sustainability Category.* *March 2019*
 - Implemented RESTful service for GET, POST commands from the App to server. Incorporated MongoDB as the database framework to store and generate corresponding recipes.
 - Applied Google Vision and Food2Fork API to recognize groceries and receipts to query recipes and keep database updated.
 - **Current Development:** Integrating Google Home/Alexa. Training a more specific and focused ML model with PyTorch. OpenCV for Real-Time Recognition. iOS support.

OTHER EXPERIENCES

- **Apple Inc.**

- *Operations Specialist* *Eaton Centre, Toronto
July 2019 - January 2020*
 - Participated in a team effort to ensure inventory accuracy and, in a timely matter, provide the top customer experience, following the APPLE steps of service.

EXTRA-CURRICULAR ACTIVITIES

- **Autonomous Robotics Club**

- *Co-founder, Back-end Developer* *Magee Secondary School
September 2016 - May 2017*
 - Originally non-operational, the club was revived and restructured from the ground up to its updated form with more than 20 recurring members participation. Negotiated and recycled broken computers from teachers to create a fleet of UNIX-based development desktops for members to learn and develop.
 - Co-lead in back-end development and vehicle design of a self-driving 3d-printed car and a quadruped spider. Instructed members in basic wiring, soldering, coding (C#) and safety training for 3d-printer.