Max Pham

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Education

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

Programming Skills

- **Languages:** Python, Java, C, JavaScript, Racket, Haskell
- **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, *Sep 2019 - Dec 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.
  - Deploying webapp through Flask backend To Google Cloud Platform. Co-engineering PostgreSQL database to maintain user profiles and progress. Partaking in webpage application from Figma prototype.

- **Portal [React + Express + MongoDB]**
  Project *Sept 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.

- **Game Center [Java]**
  Back-end Developer, Unit Tester, QA *Sep 2018 - Dec 2018*
  - Utilizing Google's FireBase Cloud Storage Framework to design and implement an Authorization system to support multi-user logins. As well as, corresponding on-the-cloud saves for each user's progress. Secured user login information security in compliance to SHA-256 encryption, guaranteeing privacy between users and developers.
  - Helped design and implement 2048 game to library.

Extra-Curricular Activities

- **Autonomous Robotics Club** Magee Secondary School
  Co-founder, Back-end Developer *Sep 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.