Max Pham

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EDUCATION

- **University of Toronto**
  Computer Science Specialist — Focus in Computer Systems   *Sep. 2017 – May. 2021*
  - **In-progress:** Computer Organization, Introduction to Software Engineering, Programming on the Web, Software Testing and Verification, Introduction to Databases, Operating Systems, Algorithm Design, Analysis & Complexity, Principles of Programming Languages

PROGRAMMING SKILLS

- **Languages:** Python, Java, C, JS(ES6), Verilog   **Technologies:** RESTful, Unix, Git, Flask, React, Node.JS, 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.

- **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.

- **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.

- **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.

- **uToronto API [Python + SQL]**
  Side Project   *April 2019*
  - Designed and deployed the API on Heroku. Adhering to RESTful principle for future open-source applications. Data collected from University of Toronto Calendar and converted into SQLite database. Back-end architecture supported by Flask.
  - **Current Development:** Creating front-end interfaces (website, browser extensions) for a more user friendly environment. Adding support for Programs @UofT and other schools. Systematically update database on an annual basis.

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.