

Max Pham

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EDUCATION

- **University of Toronto**
 - *Computer Science Specialist — Focus in Computer Systems* *Sep. 2017 – May. 2022*
 - **Completed:** Computer Organization, Programming on the Web, Principles of Programming Languages, Engineering Large Software Systems, Algorithm Design, Analysis & Complexity
 - **In-progress:** Operating Systems Design and Implementation, Database System Technology, Microprocessor Systems, Computer Security, Parallel Programming, Computer Networks, Compilers & Interpreters

PROGRAMMING SKILLS

- **Languages:** Python, C, Java, JavaScript, Racket, HCL
- **Technologies:** Terraform, SpringBoot, Linux, ThymeLeaf, Flask, Express, MongoDB, React

PROFESSIONAL EXPERIENCES

- **Uken Inc.** Toronto, ON
 - *Software Engineer* *May 2020 - April 2021*
 - Part of the Services team, which allows for exposure to multiple parts of a backend system as well as games development process. Spun up microservices for the game shareholders. Using AWS to host the service and Jenkins for executing jobs for the service.
 - Learned and applied new technologies on the go. Participated in designing and implementing Infrastructure-as-Code to manage 400+ repositories and 100+ organization members through code provisioning using Terraform.
- **Apple Inc.** Eaton Centre, Toronto
 - *Operations Specialist* *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.

RELEVANT PROJECTS

- **SDCTools [MERN stack]**
 - *Project Manager, Lead Backend Developer* *January 2020 - April 2020*
 - **Task:** Delegated proportional tasks for all teams and members. Organized and maintained the stability of both personnels and the application's production stages. Led the backend team - Writing a XML-to-JSON script; API endpoints' creation and implementation; Electron-app packaging - with considerations of security and privacy.
- **Portal [MERN stack]**
 - *Backend Developer* *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.
- **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.

EXTRA-CURRICULAR ACTIVITIES

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