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, C++, Java, JavaScript, Racket, HCL
- **Technologies:** Linux, AWS: {Cloudformation, Lambda, API Gateway}, Terraform, SpringBoot, React, Flask, MongoDB, SQL

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's shareholders. Using ECS to host the service, configured through Cloudformation and Jenkins for executing jobs.
  - 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.
  - Frequently achieves 5 points for customer satisfaction and team reviews.

Relevant Projects

- **SDCTools [MERN stack]**
  Project Manager, Lead Backend Developer *January 2020 - April 2020*
  - Delegated proprotional tasks for all teams and members. Organized and maintained the stability of both personnels and the application's production stages. Led the backend team - development of XML-to-JSON parser; API endpoints' design 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's 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, 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.