Jun Chen

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EDUCATION

University of Toronto Bachelor of Science (Fourth Year) **2015 – 2020**

Specialist in Computer Science, minor in Mathematics

- Relevant coursework:
  - Databases, Machine Learning, Computer Vision, Operating Systems, Natural Language Computing

Work Experience

- Software developer in the Power System Team at IBM Canada Lab (**Python, Java**) May 2018 – Aug 2019
  - Focused on server performance, containerized workload and built automated testing to increase testing efficiency by 40% by setting up the environment, running tests and converting to a user-friendly, one-click data format based on user-defined profiles without any human intervention.
  - Analyzed data from workload and system inspection tools like nmon, then tuned the environment to boost the performance on bare-metal server, Docker and IBM Cloud.
  - Collaborated with software teams to determine appropriate solutions and ensure test planning adheres to the proper requirements.
  - Managed and maintained over 100 servers owned by my team.

SKILLS SUMMARY

- Personal website: https://junchen96.github.io
- Solid experience coding in **Python**, **C**, **Swift**, **Java**, **assembly language (Verilog and FPGAs)**, **PostgreSQL**, **HTML**, **CSS**, **JavaScript** and **EJS**
- Significant experience in **team-based** software development
- Experience with **Git**, **MongoDB**, **Jupyter**, **Google Colab**, **Docker**, **and Kubernetes**
- Proficient in **MATLAB** to solve mathematical problems
- Proficient in operating systems and IDEs
  - **Linux**, **macOS**, **Windows**
- Keen interest in acquiring new knowledge in various fields:
  - Studied psychology, physics, mathematics, and statistics
  - Currently enrolled in extra-curricular courses online via Coursera and NetEase Online Open Courses

MAIN PROJECTS

- Image manipulation (**Python, deep learning**) Sep 2019 – Present
  - Generating contours of cats: manually built a deep learning model with UNet network and Oxford IIIT Pet Dataset, test accuracy is around 90%.
  - Image Matting: extracted foreground object from images and place it to any other image.
  - Image Inpainting: Removing some black spots and strokes from old photos or unwanted object like random tourist in the photo, placing with correct pixel values without obvious defected pixels.
- Lightweight file system (**C, socket**) **TEAM-BASED** Feb 2018 – Apr 2018
  - Built a lightweight file system able to copy, delete, symbolic link files and folders, etc.
  - Connected several computers in local networks by socket. Clients were able to send files or text messages to each other while the server could be set up in any terminal.
- Crawling (**Python, Beautiful Soup, Requests, Jupyter, MongoDB, HTML**) May 2016 – Aug 2016
  - Automatically acquired half a million merchants' information from the provided goods resale website, classified the data based on user-defined profiles, analyzed it and formed charts. It will help to generalize key data like the average price of the iPhone X on the market.