

Jun Chen

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EDUCATION

University of Toronto, St. George Campus (Fourth Year)

2015 – 2020(Expected)

Computer Science – Specialist & Mathematics – Minor

➤ Relevant Coursework:

- Database, Machine Learning, Computer Vision, Operating Systems, Natural Language Computing

Working Experience

- Software developer in Power System Team at IBM Canada Lab (**Python, Java**) May 2018 – Aug 2019
- Focused on the server performance, built automated testing to increase testing efficiency by 40%, through setting up the environment, running tests and convert to human-friendly data format with one click, based on user defined profile without any human intervention.
 - Analyzed data from workload and system inspection tools like nmon, then tuned the environment to boost the performance on bare metals, dockers 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 under my team.

SKILLS SUMMARY

- Personal website: <https://junchen96.github.io>
- Solid Experience of coding in **python, C, swift, java, assembly language (Verilog and FPGAs), PostgreSQL, HTML, CSS, java-script** and **ejs**
- Significant programming experience with **team-based** software development
- Experience with **Git, mongodb, Jupyter, Colab, docker, and Kubernetes**
- Proficient with using **matlab** to solve math problems
- Proficient with operating systems and IDEs
- **Linux, macOS, Windows**
- Extreme interest in learning new knowledge in various fields
- Studied psychology, physics, mathematics, statistics
 - Learning extra-curricular courses online via coursera and Wangyi Online Class

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 that was able to copy, delete, symbolic link files and folders, etc.
 - Connected several computers by socket in local networks, clients were able to send files or text messages to each other while server could be set up in any terminal.
- Crawling (**python, beautiful soup, requests, Jupyter, MongoDB, HTML**) May 2016 - Aug 2016
- Automatically acquired half million merchants' information from the goods resale website, classified the data based on user-defined profile, analyzed and formed charts. It could help to generalize a lot of key data like the average price of iPhone X on the market.