# 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](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 lik e the average price of iPhone X on the market.