Shengsong Xu

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PROFILE

Enthusiasm for technology and desire to build great software demonstrated through a proven record of academic success as a 3rd year computer science student.

Key Skills: JavaScript | Java | Python | Jupyter Notebook | C | Agile | Git

EDUCATION

Honors Bachelor of Science, Computer Science Sep 2019 – Dec 2023 (expected)
University of Toronto Scarborough, Scarborough, Toronto, ON
Specialist in Computer Science Co-op
Cumulative GPA: 3.90/4.0
Awards: University of Toronto Entrance Scholarship ($1500)

RELEVANT EXPERIENCE

Software Developer Jan 2022 – Apr 2022
MediaCat, UTSC Library Digital Scholarship Unit

- Optimized and developed a domain web crawler that allow scalable and fast crawling of news site using Node.js and Python, applied multithreading to increase the crawling speed by 4 times and greatly reduced the number of crawling errors.
- Worked closely with other developers to develop a twitter crawler using Twitter API and a python program to analyze and visualize outputs from both crawlers.
- Researched and Resolved Cloud instance out of memory issue when crawling over 1 million URLs by reallocated Cloud Service resources and mounted Linux /tmp folder to a larger partition.

PROJECTS

Java Shell Project Sep 2020 – Oct 2020
Group Project, UTSC

- Applied Agile method to efficiently organize the project by writing user stories and design the sprint backlog.
- Designed and built a mock shell that maintain and interact with a mock file system using Object-Oriented design patterns such as Singleton and Polymorphism design in Java.
- Effectively cooperated with 3 teammates during the pandemic and received great feedback from other teammates in anonymous peer review.
- Contributed to the maintenance of the shell project by writing Junit tests.

Handwriting recognition project Feb 2021 – May 2021
Project, UTSC

- Designed and built handwriting recognition program in C that can determine which digit the handwriting image shows by learning from 60k training data.