

Andrew Guo

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Education

Bachelor of Computer Science, Honours

Sep. 2020 – Apr. 2025

Carleton University, Ottawa, Canada

- Second-year standing, achieved 12.0/12.0 CGPA (A+)
- Double minor in business and law

Skills

- C/C++, Python, Java, HTML/CSS, JavaScript
- TCP/IP, UDP, multi-threaded and IPC programming
- pthreads, BSD Sockets, POSIX Regex, JCF (Java collections)
- Git, VS Code, Bash, Vim, Valgrind
- Linux, macOS, Windows, VirtualBox

Projects

HTTP Server | C, Git | github.com/andGuo/myHttpServer

- Built a HTTP 0.9/1.0 web server using socket connections, mutexes and condition variables
- Implemented a thread pool and task queue to parallelize connection handling
- Created a client program and made shell script to run concurrent client instances
- Used POSIX regular expressions to parse client requests

Professional Experience

Teaching Assistant

Sep. 2021 – Present

Carleton University, Ottawa, Canada

- Collaborated with fellow teaching assistants to teach weekly tutorials in Python that reinforced student learning of course material
- Wrote technical reports for course staff on suspected student plagiarism found by MOSS

Assistant Instructor

Feb. 2015 – Jan. 2020

Kumon North America, Ottawa, Canada

- Supported student learning by providing constructive feedback on their work

Volunteer Experience

Flight Sergeant

Oct. 2014 – Sep. 2019

211 Royal Canadian Air Cadets Squadron, Ottawa, Canada