

Andrew Guo

Embedded Software
Developer | Full
Stack Enthusiast

📍 Ottawa, Canada

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in linkedin.com/in/-
andrewguo/

🐙 github.com/andGuo

Education

Bachelor of Computer Science, Honours

Carleton University

Sep 2020 – Apr 2025

Ottawa, Canada

- Third-year standing,
12.0/12.0 CGPA (A+)

Skills

C/C++ | Python

Rust | JavaScript (ES6)

Node.js | Express.js

MongoDB | Gatsby

React | GraphQL

Java | Jira

Subversion | Git

Bash | GNU Make

TCP/IP - UDP

Multi-threaded and IPC
programming

Professional Experience

Software Developer

Ross Video

May 2022 – Current | Ottawa, Canada

- Embedded C Developer for flagship Acuity Live Production Switchers
- Utilized Jira and Agile software development methodologies to fix bugs and implement new features

Teaching Assistant

Carleton University

Sep 2021 – Apr 2022 | Ottawa, Canada

- Collaborated with fellow teaching assistants to teach weekly tutorials in Python that reinforced student learning of course material
- Connected with students through weekly office hours that furthered their understanding of course material

Assistant Instructor

Kumon North America

Feb 2015 – Jan 2020 | Ottawa, Canada

- Motivated student learning by providing constructive feedback on their work
- Organized student course material that ensured effectively learning in math and English.

Projects

Personal Website [🔗](#)

Gatsby, React, JavaScript, Tailwind CSS

- Deployed responsive static single page application with Gatsby React router
- Implemented dark/light mode themes using React hooks (state, context, effect), Tailwind selectors, and browser cookies

Multithreaded HTTP Server [🔗](#)

C, Bash

- 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
- Used POSIX regular expressions to parse client requests