

# Andrew Guo

Embedded Software  
Developer | Full  
Stack Enthusiast

📍 Ottawa, Canada

📞 613-663-8288

🖱️ [andguo.github.io](https://andguo.github.io)

in [linkedin.com/in/-andrewguo/](https://linkedin.com/in/-andrewguo/)

🐙 [github.com/andGuo](https://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 Ultrix 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