

Andrew Guo

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Education

Bachelor of Computer Science, Honours

Carleton University

Sep 2020 – Dec 2024

Ottawa, Canada

- Third-year standing, 12.0/12.0 CGPA (4.0 GPA equivalent)

Professional Experience

Software Developer

Ross Video

May 2022 – Aug 2022

Ottawa, Canada

- Wrote low-level C hardware and driver code inside a Linux environment
- Maintained and migrated production code between various LTS releases
- Followed Agile software development methodologies to fix bugs and implement new features on prerelease software

Teaching Assistant

Carleton University

Sep 2021 – Present

Ottawa, Canada

- Assisted professors in the grading and evaluation of assignments, exams, and projects for undergraduate computer science courses
- Collaborated with fellow teaching assistants to deliver weekly tutorials in Python/C that reinforced student learning of course material
- Led weekly office hours to support students and assist in debugging students' code

Projects

Andrew's Personal Website [🔗](#)

JavaScript, ReactJS, Gatsby, Tailwind CSS, Node.js

- Deployed responsive static single-page application with ReactJS router
- Implemented dark/light mode themes using ReactJS hooks, CSS selectors, and browser cookies
- Embedded SEO optimization and Google Analytics to increase web traffic and visibility

Andrew's Multithreaded HTTP Server [🔗](#)

C, Bash, Linux

- Built an 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 regular expressions to parse client requests

Look-Inna-Book [🔗](#)

Typescript, ReactJS, Next.js, Supabase (Postgresql), Node.js

- Constructed full stack storefront website hosted on Vercel with Next.js front-end and Supabase back-end that together enable CRUD operations
- Implemented user auth featuring JSON Web Tokens
- Designed comprehensive ER diagram and normalized relational schemas to store users, orders, books, etc.
- Wrote server-side PostgreSQL functions, triggers, policies, and queries

Skills

JavaScript | Typescript | Node.js | PostgreSQL | MongoDB | Express.js | GraphQL | Jira

ReactJS | Next.js | Gatsby | Java | GNU Make | TCP/IP - UDP | Multithreaded and IPC programming

C/C++ | Python | Rust | Haskell | Git | Subversion | Bash