Andrew Guo

📞 613-663-8288　　in linkedin.com/in/-andrewguo/　　🗘 github.com/andGuo　　✉ andrew.guo@carleton.ca

Education

Carleton University　　　　　　　　　　　　　　　　　　　　　　　Sep 2020 – Dec 2024
Honours Bachelor of Computer Science Co-op, Software Engineering Stream　　　Ottawa, Canada
- Third-year standing, 12.0/12.0 CGPA (4.0 GPA equivalent)
- Double Minor in Business and Law

Skills

Javascript　|　Typescript　|　Node.js　|　PostgreSQL　|　MongoDB　|　Express.js　|　GraphQL　|　Jira　|　ReactJS

Next.js　|　Gatsby　|　GNU Make　|　TCP/UDP　|　Multithreaded and IPC programming　|　Bash　|　Subversion

C　|　C++　|　Python　|　Java　|　Rust　|　Haskell　|　Git

Professional Experience

Software Developer　　　　　　　　　　　　　　　　　　　　　　　May 2022 – Aug 2022
Ross Video　　　　　　　　　　　　　　　　　　　　　　　　　　　Ottawa, Canada
- Developed low-level C driver code inside a Linux environment and committed over 5000 lines of code across various software prerelease versions
- Maintained and migrated production code between diverse LTS releases
- Followed Agile software development methodologies to fix bugs and implement new features for clients

Teaching Assistant (Introduction to Computer Science + Systems Programming)　　Sep 2021 – Present
Carleton University　　　　　　　　　　　　　　　　　　　　　　　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

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

Andrew's Personal Website 🔗
Javascript, ReactJS, Gatsby, Tailwind CSS, Node.js
- Deployed a 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

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