

Andrew Guo

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EDUCATION

Carleton University

Honours Bachelor of Computer Science, Software Engineering Concentration

- 3rd-year standing, 12.0/12.0 CGPA (A+)

Ottawa, Ontario

Sep. 2020 – Present

AVAILABILITY

Available for 8 months, beginning May 2023

EXPERIENCE

Software Developer

Ross Video Ltd.

May. 2022 – Aug. 2022

Ottawa, Ontario

- Wrote and reviewed low-level driver code in C and committed over 5,000 lines of code for software used in mission-critical hardware
- Updated and migrated production code between diverse LTS software releases
- Followed Agile software development methodologies to quickly implement new features for clients

Teaching Assistant (Systems Programming in C)

Carleton University

Sep. 2021 – May. 2022

Ottawa, Ontario

- Automated feedback entry into the University's learning platform using Selenium and Python to parse XLXS data which decreased grade input times by over 70%
- Collaborated with other teaching assistants to provide weekly tutorials that reinforced student learning of course material to 100+ students
- Assisted course instruction by writing constructive feedback on assignments, tests, and projects to facilitate learning in undergraduate computer science courses

Assistant Instructor

Kumon North America

Feb. 2015 – Jan. 2020

Ottawa, Ontario

- Communicated with parents on a regular basis to provide updates on their child's progress and address any concerns
- Monitored and tracked students' progress through regular assessments and feedback sessions that ensured effective learning in math and English
- Fostered and maintained a positive and supportive learning environment for students

PROJECTS

Look-Inna-Book | *Typescript, React, Next.js, Supabase (PostgreSQL), Node.js*

Nov. 2022 - Dec. 2022

- Developed a full-stack web application with Supabase serving a REST API with Next.js as the frontend hosted on Vercel to enable CRUD operations
- Implemented GitHub and Google OAuth featuring JSON Web Tokens to grant user account access
- Wrote server-side PostgreSQL functions, triggers, policies, and queries
- Designed comprehensive ER Diagram and normalized database schemas to improve data integrity

Personal Website | *Javascript, React, Gatsby, Tailwind CSS, Node.js*

Apr. 2022 - Apr. 2022

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

Multithreaded HTTP Server | *C, Bash, Linux*

Dec. 2021 - Jan. 2022

- Built an HTTP 0.9/1.0 compliant web server with socket connections, mutexes, and condition variables
- Implemented a thread pool and task queue to parallelize connection handling
- Used regex to parse client fetch requests to ensure compatibility across different browsers

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Javascript, Typescript, SQL (Postgres), GraphQL, HTML/CSS, Haskell, Rust, Bash

Frameworks: React, Node.js, Next.js, Express.js, Gatsby, MongoDB, Supabase

Developer Tools: Git, GitHub, Subversion, Jira, Vercel, Netlify, Selenium, Excel