

# Alexander Greff

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Toronto, ON  
[github.com/alex-greff](https://github.com/alex-greff)

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## Experience

### OneSixtyTwo Digital Capital

May 2021 – Dec. 2021

Frontend Engineer Intern / Part-time Contract

Toronto, ON

- Designed and developed internal CRM tool with Flutter, greatly improving workflow of CTO and CEO for managing investor and order data
- Implemented frontend client for managing various company owned Hot Wallets in secure central location
- Developed full-stack web application with React and Fast API for displaying flexible graphical analytics of realtime in-house market data, used by investment team to make informed investment decisions

### Caseware International

Jan. 2019 – Aug. 2019

Software Developer Intern

Toronto, ON

- Worked on production code of leading financial auditing software solution used by the Big Four accounting firms, developing over 20 features and improvements
- Proposed and lead development of a dashboard project, significantly improving user workflow of auditing solution
- Developed dialog system upgrade using Vue.js, improving code reusability and UI design consistency

### University of Toronto

Jan. 2020 – May 2022

Teaching Assistant - Web Development

Toronto, ON

- Facilitated weekly 30-person practical lab, teaching students the fundamentals of web development
- Designed new lab for course, teaching the basics of frontend development using modern React
- Delivered a guest lecture about WebAssembly to 140-person lecture section, along with supplementary demo projects

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## Projects

### Syntune | [Source/Live demo](#) | TypeScript, Express, Redis, Vue, Sass, Docker

April 2020

- A web app built in team of two that syncs audio files across multiple peers with host controlling playback
- Synchronization, audio playback, and distribution of audio files implemented with WebRTC using the PeerJS library
- Backend service to manage rooms, built with Express, TypeScript and Redis, deployed in a Docker container on Heroku
- Responsive frontend client built using Vue.js, TypeScript and SASS/SCSS

### Websocket Server & Client | [Source/Live demo](#) | React, TypeScript, Electron, Node.js, Python

Nov. 2021

- Flexible spec-compliant Websocket client and server libraries implemented ground up from the TCP layer
- Cross-platform chatroom web app using Electron and React, showcasing flexibility of server and client libraries

### Personal Website | [alexgreff.com](https://alexgreff.com) | React, TypeScript, Gatsby

May 2020

- Personal portfolio website designed and developed from scratch for showcasing experience and projects
- Static site rendering using Gatsby to significantly improve load times and SEO
- Flexible Markdown rendering system allowing for flexible customization of site content

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## Education

### University of Toronto

Sep. 2017 – May 2022

Honors, Bachelor of Science in Computer Science

Toronto, ON

- cGPA: 3.5/4.0, Dean's List
- Data Structures, Algorithms, Software Design, Web Development, Systems Programming, Databases, Operating Systems, Computer Networking and Security

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## Technical Skills

**Languages / Frameworks:** React, Vue.js, JavaScript/TypeScript, Python, Java, C/C++

**Developer Tools:** Git, Docker, SQL and NoSQL databases

**Methodology:** Testing, Debugging, Agile, Design patterns, RESTful APIs, Responsive Design, Problem solving, Teamwork

**Platforms:** Unix, Node.js, Browser, Android