



Alexander Greff

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Experience

University of Toronto

Jan 2020 – Present

Teaching Assistant (CSCB09 – Software Tools and Systems Programming)

Toronto, ON

- Facilitating a **weekly 30-person lab section** with the responsibility of helping students understand lab and course materials
- Assisting course professors with providing **marking and feedback** for student tests and assignments

CaseWare

Jan 2019 – Aug 2019

Software Developer (Co-op)

Toronto, ON

- Proposed and developed a fully working **dashboard prototype** web-application using **React**, aimed at replacing the legacy dashboard application
- Updated numerous dialogs to use **Vue**, substantially improving **code quality** and **reusability**
- Researched and implemented fixes for multiple bugs in the core Audit system, leading to improved **performance** and **user experience**

Projects

Skedge

Nov 2019 – Present

Visual timetable planning tool for UofT students

- Attended meetings with **UofT IT staff**, discussing integration with existing administrative tools
- Lead designer and frontend developer for the project, utilizing **Figma** and **Vue JS** extensively
- Working closely with team members to integrate into **microservice**-oriented backend platform using technologies including **Node JS**, **GraphQL** and **Python**

Shabam

June 2019 – Present

Remake of the popular music-recognition app Shazam

- Utilizing **Vue** framework to create responsive frontend client
- Highly scalable backend API implemented using **Node JS**, **TypeScript** and **GraphQL**
- Substantially increasing front-end DSP (Digital Signal Processing) performance using **WebAssembly**
- Highly scalable worker-based architecture using **Docker** and **Kubernetes** to offload heavy DSP processing loads to independent workers

Personal Website

Dec 2018 – June 2019

Personal portfolio website to showcase projects and experience

- Utilized spare time to develop a **responsive** personal website to showcase projects, work experience and other items
- Designed and developed website using **Vue** along with the static site generator **Gridsome**
- Continuous integration deployment pipeline setup using **Netlify**

Education

University of Toronto

Sept 2017 – Apr 2021

3rd year Computer Science Specialist (Co-op)

Toronto, ON

- CGPA 3.28/4.0
- Recipient of UofT Scholars Award 2017