

Cheng Qian

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Engineering
Co-op Program

ACADEMIC AND CO-OP STATUS

University of Alberta		Completed Academic Terms	5 of 8
Software Engineering Co-op, BSc	Class of 2026	Completed Co-op Work Terms	0 of 4
Cumulative Grade Point Average	3.4/4.0	Availability Starting January 2024	8 Months

TECHNICAL SKILLS

Programming: Python, C++, React, JavaScript, TypeScript, Java, C#, TensorFlow 2.0, CSS, HTML, SQL, ARM Assembly

Tools: Git/GitHub, Linux, Virtual Machines, Bash, Next.js, Android Studio, Postman

Software: Word, Excel, PowerPoint, Outlook, Teams, SketchUp, KiCad

Skills: Data Structures, Algorithms, REST APIs, OOP, Soldering, Intro to Machine Learning, Software Testing

EXPERIENCE

React Developer | The Fresh Living | Edmonton, AB May 2023 – Jun 2023

- Developed modular react components, improving code maintainability and consistency across the application.
- Implemented seamless multi-language support utilizing next-intl, enhancing user experience for international audiences.
- Reduced webpage loading time using Next.js server rendered components and improved SEO performance.

Web Developer | ESS, University of Alberta | Edmonton, AB Sep 2022 – Present

- Drafted and developed modern user interfaces with JavaScript frameworks, HTML, and CSS, which increased audience engagement by 46%.
- Collaborated with the Vice President and the IT team to implement website update with seamless functionality.

PROJECTS

Portfolio Website | React, TypeScript, Tailwind CSS Sep 2023

- Developed a website using React and TypeScript, showcasing expertise in front-end technologies, and delivering a sleek, user-centric interface while optimizing performance and functionality.
- Leveraged Daisy UI's Tailwind configurable components to implement an aesthetically captivating and highly responsive webpage.

CIFAR-10 CNN | TensorFlow 2.0, Python, NumPy, Matplotlib Jul 2023

- Created a TensorFlow CNN model with a strong 88% validation accuracy for image classification based on the CIFAR-10 dataset.
- Optimized the model and prevented overfitting using data normalization, data augmentation, and dropout.

Prompt-GPT | React, TypeScript, MongoDB, Tailwind CSS, Next.js May 2023

- Delivered a polished, user-friendly interface and ensuring optimal performance and functionality.
- Utilized CRUD operations to efficiently create, read, update, and delete from the MongoDB database.

Game Discovery | React, TypeScript, Axios, Vite Apr 2023

- Utilized the RAWG API and Axios to retrieve a list of games filtered by platform, genre, and by search.
- Designed and developed a visually appealing and responsive layout using Chakra UI components, ensuring an optimal user experience across all devices.

ADDITIONAL INFORMATION

Certification: Canadian Citizen | Class 5 Drivers' License, reliable vehicle | Willing to Relocate | Hardware Design

Awards: Jason Lang Scholarship 2022, Alexander Rutherford Scholarship 2021

Languages: English (Fluent) | Mandarin (Intermediate)