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#, CSS, HTML, SQL, TensorFlow 2.0, ARM Assembly, XML, UML

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

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

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

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 | Engineering Students' Society | 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 IT team to enhance the ESS website by implementing new functionality and integrating a more streamlined design.

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 DaisyUI's Tailwind configurable components to implement an aesthetically captivating and highly responsive webpage.
- Utilized React hooks to craft an intuitive and responsive user interface, elevating user engagement through seamless state management and interactive components in a web application.

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 Driver's License, reliable vehicle | Willing to Relocate | Hardware Design

Awards: Jason Lang Scholarship 2022, Alexander Rutherford Scholarship 2021

Languages: English (Fluent) | Mandarin (Intermediate)