

# CHENG QIAN

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## EDUCATION

**Bsc. Software Engineering Co-op**, University of Alberta  
Cumulative GPA: 3.4/4

Expected May 2026

## SKILLS

**Programming Languages:** C#, C++, Python, Java, TypeScript, VB, SQL, NoSQL

**Technologies:** .NET, ASP.NET, Angular, React, Next.js, TensorFlow 2.0, PyTorch

**Tools:** Git, Postman, Linux, Virtual Machines, Bash, Android Studio, Azure DevOps, Excel

## EXPERIENCE

### Software Developer Co-op

Jan - Sep 2024

*PCL Construction*

*Nisku, AB*

- Optimized existing codebase and developed new features for PCL's Industrial Project Management (IPM) C# desktop application and developed full-stack web application using ASP.NET and Angular.
- Implemented a batch multi-threaded asynchronous report system in IPM, significantly improving efficiency in exporting reports for clients.
- Utilized APIs to determine the location (on-premise or cloud) of specification drawings for fetching and access.
- Built RESTful APIs and converted backend services to use the domain model, enhancing maintainability.

### React Developer

May 2023 - Jun 2023

*The Fresh Living*

*Edmonton, AB*

- 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.

## PROJECTS

### Blog Website | Angular, C#, ASP.NET, SQL Server

- Developed a full-stack blog website using Angular for the frontend with ASP.NET and SQL server for the backend, delivering a responsive and user-friendly interface.
- Implemented RESTful APIs with a DTO and repository pattern, creating an efficient abstraction layer for seamless data management while decoupling domain objects from the schema.

### Portfolio Website | React, TypeScript, Tailwind CSS

- Developed a website using React and TypeScript, showcasing expertise in React, and delivering a sleek, user-centric interface while optimizing performance and functionality.
- Utilized React states and hooks to craft an intuitive and responsive user interface, elevating user engagement through seamless state management and interactive components in a web application.

### Fruits 360 CNN | TensorFlow 2.0, Python, NumPy, Matplotlib

- Constructed a robust fruit classification system using a pre-trained ResNet50 model with additional layers to accurately categorize a diverse dataset of 60 fruits, achieving a validation accuracy exceeding 97%.
- Implemented standard techniques, including the creation of a confusion matrix for performance evaluation and the implementation of data augmentation for improved model generalization.

## ADDITIONAL INFORMATION

**Certifications:** Stanford Machine Learning Specialization, University of Alberta Reinforcement Learning Specialization, Canadian Citizen, Class 5 Driver's License

**Awards:** Jason Lang Scholarship 2022-2024, Alexander Rutherford Scholarship 2021