Zejia Cai

**Entry Level Web Developer**

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*Highly motivated and recently graduated web developer with strong problem-solving skills and a commitment to excellence, eager to leverage academic knowledge and practical project experience to contribute effectively to a dynamic and collaborative team as a Web Developer.*

# TECHNICAL SKILLS

 Proficient in **C/C++, C#, Python, Java**, Kotlin, SQL, and more

Work experience with **Kubernetes** and **serverless technologies** on GCP and AWS  Knowledge and hand-on experience with **microservices and event-driven architecture**



 Experience with **Client-server architecture, Networking**

 Experience with version control systems such as **Git**

 Proficiency in **Windows/Linux/Unix** operating systems and **shell scripting**

 Hand-on experience with **MySQL, Redis and Kafka**

# TRANSFERRABLE SKILLS

 Good **communication and team management skills** by working in fast paced environments

 Strong **problem solving** and analyzing skills developed from coursework and side projects  Capable to **quickly learn** leading-edge technologies

 Tri-lingual in **English, Cantonese, and Mandarin**

# RESEARCH EXPERIENCE

**SFU** - CS Research Assistant

Jan 2024 - current Burnaby, BC

 Designed and implemented a new software tool in **C#** to help users to add **human-interactive** components to their 3D models in Rhinoceros with **A\* algorithm** and math heavy calculation

 Performed **agile software development**, incorporating **UX design** and **OOP methodologies** to enhance user experience and maintain code quality

 Demonstrated **problem-solving skills** and ability to **quickly learn** **and adapt** to new technologies, including 3D models, C#, Rhinoceros, and Grasshopper

 **Collaborated with a multidisciplinary team** of graduate students to develop the software based on their needs

# PROJECTS EXPERIENCE

**Pet Supply E-commerce Website** – Creator and Architect Apr 2024 – Current  Architected and developed a high availability and high scalability web system in **Microservices**

**Architecture** using the **Spring Boot framework** from scratch

 Developed and optimized a responsive, user-friendly interface using **JavaScript**, **React**, and **Next.js**, ensuring seamless integration with backend APIs

 Built and implemented a recommendation system using **Machine Learning** Algorithms and **Kafka Stream**

 Engineered a robust data management system utilizing **MySQL** for persistent storage, **Redis** for caching, and **Kafka** for real-time data processing and messaging

 Designed a robust, efficient, and scalable **database schema** following **database normalization**

**Educational Resource Website** - Creator Feb 2024 - Apr 2024  Implemented a high available and scalable web application in **Microservices Architecture** with

**Spring Boot framework**

 Implemented the system to be deployed using **Kubernetes** and **serverless technologies** on Google Cloud Platform and AWS

 Utilized load balancing and service discovery mechanisms with **Eureka** to ensure a **multi-region deployment** of the system

 Adapted resiliency patterns to ensure **fault tolerance and high availability**

**Rapid Medical Imaging Examination** - Creator Sep 2023 - Dec 2023  Designed and built an **AI-based** multi-task detector website for medical image analysis in **Python**

 Implemented a tumor classification tool and bone fracture detection tool using **Deep Learning** models

 **Collaborated with a team of 5** to ensure timely project delivery while adhering to best practices.

# EDUCATION

**Simon Fraser University** - B.S., Computer Science

Sep 2019 - Apr 2024 8888 University Dr W, Burnaby, BC V5A 1S6

**Relevant courses**

 Web Systems Architecture - Serverless  Data Communications and Networking  Database Systems

 System Security and Privacy  Software Development