

Zeja Cai

Entry Level Web Developer

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Vancouver, BC

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