**Zejia Cai**

**Software Engineer - Serverless Computing**

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*Highly motivated and recently graduated software engineer 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 an Software Engineer at Huawei.*

**WORK EXPERIENCE**

**SFU** – CS Research Assistant

January 2024 – current

* Designed and implemented a new software tool to help users to add human-interactive components to their 3D models
* 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**

**Educational Resource Platform** – Architect February 2024 – April 2024

* Designed and developed a high availability and high scalability web system in Microservices Architecture using the Spring Boot framework
* Implemented the system to be deployed using serverless technologies: Google Cloud Run, and Google Cloud Functions
* Utilized load balancing and service discovery mechanisms with Nacos to allow the system to be deployed in a multi-region environment
* Adapted resiliency patterns to ensure fault tolerance and high availability

**Rapid Medical Imaging Examination** – Creator September 2023 – December 2023

* Designed and built an AI-based multi-task detector website for medical image analysis
* Implemented a breast tumor classification tool and bone fracture classification tool. Also merged COVID-Net model into the platform to be a COVID detection tool.
* Collaborated with a team of 5 to ensure timely project delivery while adhering to best practices.

**MyChat App** – Creator December 2022 – April 2022

* Developed the conceptual framework, functionality, and features of the app
* Implemented the backend services of the software using Kotlin and Firebase: notification service, cloud database, local database and communication system

**Education**

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

September 2019 – April 2024 8888 University Dr W, Burnaby, BC V5A1S6

**Relevant courses**

* Web Systems Architecture – Serverless
* Data Communications and Networking
* Database System
* System Security and Privacy
* Software Engineering

**SKILLS**

**Technical**

* Proficient in C/C++, C#, Python, Java, Kotlin, and more
* Work experience in Google Cloud Function and Google Cloud Run

**Non-Technical**

* Tri-lingual in Mandarin, Cantonese, and English
* Excellent communication skills both verbally and in writing
* Capable to quickly learn leading-edge technologies