Zejia Cai

**Web Developer Intern**

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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 Web Developer Intern at Ada.*

# TECHNICAL SKILLS

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

 Work experience with **serverless technologies**: Google Cloud Function/Run, and AWS Lambda  Knowledge and hand-on experience with **microservices and event-driven architecture**

 Familiarity with **machine learning** libraries and frameworks such as TensorFlow, Keras, or PyTorch  Experience with version control systems such as **Git**

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

 Hand-on experience with **database administration, database installation and security**

# TRANSFERRABLE SKILLS

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

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

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

# WORK EXPERIENCE

**SFU** - CS Research Assistant

Jan 2024 - current Burnaby, BC

 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

 Tested software for bugs and operating speed, fixing bugs and documenting processes to increase efficiency by 18%

 Generated 3D printing models routinely to test out accurate parameters for kinetic units

# PROJECTS EXPERIENCE

**Educational Resource Website** - Architect Feb 2024 - Apr 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 Sep 2023 - Dec 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 Dec 2022 - Apr 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

**Deny and Conquer Game** - Creator Jul 2023 - Aug 2023  Implemented a multi-players game that built on a client-server architecture that uses TCP

 Designed the multi-threading architecture to handle multiple client connection and locks to manage

shared resources

# 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