Shiyi Zhang Victoria, BC, Canada

(236) 969-7088 zhangshiyi9837@gmail.com linkedin.com/in/shiyizhang9837

Educational Background

University of Victoria **Aug 2024 – Aug 2025(expected)**
Master's degree in Telecommunications and Information Security *BC, Canada*

University of California, Riverside **Sep 2020 – Dec 2021**
Master's Degree in Computer Science *Riverside, California*

Jianghan University **Sep 2015 – Jun 2019**
Bachelor's Degree in Computer Science (top 3% overall) *Hubei, China*

- First-Class Scholarship, Outstanding University Graduates

Core Qualifications

Technologies: Python, Java, Spring Boot, Spring Security, RESTful, Microservices (Eureka, Feign, Gateway), Swagger

Tools: Github, Docker, Hadoop, Spark, Postman, RabbitMQ, Maven, Jenkins(CI/CD), AWS, Jira, Matlab

DataBase and Operation System: MySQL, MongoDB, JDBC, Hibernate, Linux

Work Experience

Tusimple | *DevOps Developer* **Aug 2022 - Feb, 2023**

- *Truck Pre-Trip Time Analysis System*
  - Developed a **Python**-based system to extract trip times from diverse **API**.
  - Integrated three scripts to streamline the chronology of component start times and harmonize time zone disparities.
  - Compare the time difference to identify lagging components, thereby improving overall pre-trip efficiency.
- *Automatic Error Modules Generate System*
  - Collect data from the Log and Topic files and build a symptom tree to store error relationships (Python Dictionary).
  - Built a system using **Python** to automatically generate error modules based on the truck trip symptom data, reduced 70% of time to figure out error components.
  - Implemented **PySpark** to leverage Apache Spark's powerful in-memory data processing capabilities, allowing our system to efficiently handle increased data volumes with improved fault tolerance.
- *Seamless **CI/CD** Integration for Truck Error Modules Generate System*
  - Established a **GitHub** repository for version control, and integrated **Jenkins** to automate builds upon code pushes, ensuring the codebase was consistently deployable and accelerating release cycles.
  - Containerized the error modules generate system using **Docker**. Used Dockerfiles and docker-compose for managing application dependencies, leading to a 50% reduction in deployment times.
  - Designed a **Jenkins** pipeline, encompassing code checkout, **Docker** image creation, and **unit testing**. Integrated static code analysis tools for immediate feedback on pull requests in **GitHub**, enhancing overall code quality.

Quantum Photonics Club Corp | *Web Developer* **Mar 2022 - Aug 2022**

- *Quantum Photonics Club Corp's official website*
  - Developed a **Spring** application, configured a **MySQL** database for User on a remote **Linux** server using **SSH**.
  - Containerized the web application using **Docker**, and established a **CI/CD** pipeline, automating build, test, and deployment processes, leading to faster, more reliable releases and updates.

Projects

∗ *Hr Management System based on **Spring Boot***
  - Implemented a comprehensive onboarding process for employees from registration, and personal information updates, to visa status management and housing assignments, and HR can manage employees' information.
  - Implemented a scalable **Microservices** backend using **Eureka**, and **API Gateway** and **OpenFeign**.
  - Designed and managed database tables in **MySQL** and **MongoDB** integrating **Hibernate**.

∗ *Online Shopping App using **Spring Boot***
  - Designed a secure user authentication system using **Spring Security** and **JWT**, enabling seamless registration, login, and **CRUD** operations for both buyers and sellers with **Hibernate** integration on a **MySQL** database.
  - Leveraged **Spring AOP** for centralized error handling, decreasing application downtime by 20%.
  - Developed **RESTful** services using **SpringBoot**, **Maven**, and **Spring Security**, and integrated **Swagger** for **API** documentation. Achieved at least 30% code coverage through **JUnit** and **Jacoco** for **unit testing**.