Name**: Lu Zhao**

Mobile: 0224301772

Work Visa: Expired on 15 August 2022

E-mail: [luzhao0229@gmail.com](mailto:luzhao0229@gmail.com)

LinkedIn: <https://www.linkedin.com/in/luca-zhao-2b9619151/>

Certificate: Oracle Certified Master, Java EE 6 Enterprise Architect

**Summary**:

I have graduated from Massey University in the Master of Information Science with average grade A-. During this period, I advanced my knowledge in the fields of Machine Learning and Data Science. Additionally, as I had worked as a **Java Web Developer** more than **6 years**, I‘d like to continue working in this area. I am a Full Stack web developer, including the front-end and the back-end. I am seeking a job in Auckland.

**Skills:**

1. **Front-end:** 
   * HTML/CSS (6 years++)
   * JQuery (6 years++), Bootstrap (2 years++), JavaScript (6 years++)
2. **Back-end:**
   * Spring MVC (6 years++), Mybatis (1 years++), Hibernate (4 years++)
   * MySQL (6 years++)
   * RESTful (1 years++), WebService (4 years++),
   * RPC, gRPC
   * JSON
   * Redis (1 years++), Memcached (4 years++)
3. **Tools:**
   * Git, SVN,
   * Maven
   * AWS
   * Apache Tomcat, Nginx

**Work Experience**

1. **Senior Java Developer**

**Company:** Chinabank Payments (Beijing) Technology Co., Ltd (JD finance)

**Date:** November 2015 to December 2016

**Project: An online video call customer service system**

* 1. **Situation**

As a finance company, the financial services include financing loans, asset management, payment solutions and crowdfunding. This project is a part of payment solutions which services the customers from the JD.com. When a customer applies a baitiao, which is a kind of credit card but only allowed to be used in the JD.com, the proof of identification is required which includes the National ID card and binding a bank card. However, if the customer failed to bind a bank card, another way is provided for them that they can make a video call to the customer services through which they are able to display the ID card. The way to make a video call to the consultants is achieved by this project.

* 1. **Task**

When I took over this project, it had achieved the main functions that allows the customer to make a video call from web browser or mobile (including Android and IOS system), and the consultant can receive the call in the web browser. However, as an initial version, several problems exists in this problem, such as frequently disconnect, unclear MVC architecture and a number of bugs. My task is to improve the reliability and availability of this system.

* 1. **Action**
* At the beginning, there are only three applications, which are a web application, an android application and an IOS application. As a Java web developer, my job focuses on the web application.
* The first thing I did is to separate the web app into four applications. Two of them are front-end web applications which allows the web customer to make a video call and allows consultant to receive the call. The third app is to provide RESTful API for the mobile applications including both Android and IOS. The last one is to deal with the common business requests from the front-end and to read and write the data into the database.
* The second thing I did is to help other colleague rewrite the SQL in order to shorten the database access time, which can reduce the pressure of the database.
* The third task is to add a Redis server which stores the images of ID card. This is helpful to improve the response time.
* Another task is to redesign the database and refactoring the system. This is because this system is not only used by the baitiao business department. The stock business department would also use this system in the future and it used.
  1. **Result**
     + The availability is improved from 60% to 85%.
     + The number of customers per day increases from 100 to 800.
     + The average processing time per customer is reduced from half hour to 5 minutes by optimizing the process and the system.
     + The response of all the requests is reduced to under 100ms except the OCR of ID card images.
  2. **Technology Stack**
     1. **Front-end**
        + HTML, CSS
        + JQuery, Bootstrap, Javascript
     2. **Back-end**
        + The web framework of all the web apps is Spring Web MVC
        + The persistence framework is MyBatis and the database is MySQL.
        + The connection between the front-end and back-end is through the JSF, which is a customized RPC framework.
        + The datatype of the RESTful API is JSON.
        + Every video call is recorded and stored in a Cloud storage.
     3. **Tools**
        + Linux.
        + Nginx is the HTTP and proxy server, and the load balancer for an Apache Tomcat farm.
        + Git, Maven
     4. **Agile development**

1. **Developer Manager**

**Company:** Beijing World Elite Education Science and Technology Co., Ltd.

**Date:** April 2010 to October 2015

**Responsibility**:

1. Communicate with business department and write the Business Requirement Specification and Software Requirement Specification
2. Make the plan and assign the tasks. Push the process of development.
3. Design the database.
4. Coding.
5. Test and deploy the project into product environment.

**Outcome**:

1. A CRM System which is used to manager the customer resources, as well as the customers’ consumption and the usage of customers’ products.
2. A website that is to display the products of this company. (www.jinghua.org)
3. One-to-one System aims to record the sales performance of sale representatives, and the usage of product customer purchased. Additionally, a function that the customer can book a time with a special employee is also included.
4. An online Education website is an online shop. The customer can pay online to purchase some video courses. (www.jinghua.com)

**Technology Stack:**

* 1. **Front-end**
* HTML, CSS
* JQuery, Javascript, EasyUI
  1. **Back-end**
* The web framework of all the web apps is **Spring Web MVC**
* The persistence framework is **Hibernate** and the database is **MySQL**.
* **Webservice**.
* **Memcached**
* **Shiro**
  1. **Tools**
* Linux.
* **Nginx** is the HTTP and proxy server, and the **load balancer** for an Apache **Tomcat** farm.
* **SVN**.

**Education**

**Master of Information Science**

Massey University, Auckland, NZ

February 2018 to June 2019

**Electronic Information Science and Technology**

China Agricultural University, Beijing, China

September 2006 to June 2010

**Other Skills**

Front-end: **VUE.js,**

Back-end: **Python, Django, Flask, C++**

Database**: Oracle**

Tools: **UML, AWS, Bitbucket, docker**

Others**: opencv, opengl, Numpy, pandas, matplotlib, Scikit-learn**