

SHANG, Liang
Software Engineer/Java Developer
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Education Background

From: September 2013 To: September 2014

University: Imperial College London.

Major: Software Engineering Degree: Master of Science

Main Courses: Distributed Systems, Distributed/Parallel Algorithms, Advanced Object Oriented Program, Advanced Database, Software Reliability and Robotics.

From: September 2008 To: June 2012

University: Dalian University of Technology.

Major: Network Engineering Degree: Bachelor of Engineering

Main Courses: Operating System, Networking, Data Structure and Algorithm, Database, Network Security (Cryptography) and UML.

Working Experience

From March 2015 to now,

Working Experience in Fangdd (www.fangdd.com) as a Java developer

Project Experience

- June 2015 - now

Fangdd Search Module,

Responsibility: Firstly implemented the Search Module that indexes houses from DB and allows house searching. Secondly used Redis as cache and producer-consumer queue to boost searching and indexing performance. Then designed and implemented a Pinyin-segmentation tokenizer plugin for Elasticsearch to support Chinese/Pinyin mix search. Now write HiveQL and UDF on Hadoop platform to generate daily searching report, and also write a search quality evaluator with PR-rate and TopN to help improving users' search experience.

Project Description: This project based on Elasticsearch supports house searching. It allows potential house-buyers to query and filter houses in all Fangdd customer-oriented systems, including customer APP and website. This project also involves Spring, Redis, Mybatis and Thrift.

- March 2015 - now

Server-Side of Fangdd Mobile APP,

Responsibility: Firstly designed and implemented the server handling new-house business, and then "migrated" legacy PHP code into Java. Now contributing to the server that serves the second-house business.

Project Description: This project is developing a Java server fully customer-oriented that supports Fangdd Mobile APP so that potential house-buyers could search houses, communicate with agents/house-owners and manage their purchasing processes. The protocols include thrift and HTTP (akka RESTful API). This project also requires strong

communication skills because I need to make clear the requirements from product owner, consult with APP-end developers to define appropriate apis and seek support from other internal service providers. This project involves Spring, SpringMVC, Redis.

From September 2013 to September 2014,
Study Experience in Imperial College London as an Msc. student

Project Experience

- May 2014 - September 2014
Elastic Cloud Acceleration,
Responsibility: Design and implement an elastic platform that brings elasticity to batch applications and online applications.
Project Description: An individual project to achieve elasticity for programs running in the Linux container located on the machine with hardware accelerator by monitoring the container and changing the resources allocated to the container dynamically. The accelerator is DFE from Maxeler and Docker is used to manage LXC.
- January 2014 - May 2014
Flyway – Tool for Resource Migration between Clouds,
Responsibility: Learned knowledge of OpenStack, took charge of migrating users and roles, tested and fixed bugs of other migrations.
Project Description: As part of Facebook Open Academy, this project is to create a tool for forklifting resources from one OpenStack instance to another. The language is python. Nova/Keystone/Cinder-client, Taskflow and paramiko are used. This project proves that I have a strong willing and ability to learn a new language (Python).

From August 2012 to August 2013,
Working Experience in SipingSoft (Chengdu) as a Java developer

Project Experience

- March 2013 - August 2013
Product Life-cycle Management System,
Responsibility: Participated in designing the function of the system and designing the database, designed and implemented modules such as BOM management, change procedure and document management.
Project Description: A B/S system used in R&D department, helping employees to manage their material, BOM, change number and document in their daily R&D works. It is implemented by Java, Spring and iBatis. DB is Oracle, while front-end uses JavaScript, jQuery and HTML5.

Programming Skills:

Elasticsearch: write tokenizer plugin, write client-side code to call query, filtering and indexing apis.

Java: core Java, concurrency packages