

Haolan Yang

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EDUCATION

Northeastern University, Seattle (NEU), WA, US

May. 2022

M.S. in Computer Science, GPA: 3.8

Beijing University of Posts and Telecommunications (BUPT), Beijing, China

Jun. 2019

(Joint Program) Queen Mary University of London (QMUL), London, UK

B.M.S. in E-Commerce Engineering with Law, GPA: 3.7

COMPUTER SKILLS

Languages: JavaScript, TypeScript, Java, Go, Node.js

Database/Tools: MySQL, MongoDB, Redis, Elasticsearch, Docker, Maven, Git, Junit

Web Development: Express.js, Koa.js, React.js, Vue.js, Webpack, Spring, SpringMVC, Springboot, MyBatis, Gin

WORK EXPERIENCE

Cloudwalk Technology, Shanghai, China

Sep. 2019 – Dec. 2019

Software Engineer Intern

- Encapsulated the authentication package using **JWT** (JSON Web Token) as protocol and **Redis** as cache which provided **4** teammates with authentication service for RESTful API.
- Created **RESTful** APIs with **SSM** (**Spring**, **Spring MVC**, **MyBatis**) for cloud platform which provided face-recognition services for small and medium sized enterprises.
- Collected the external data of client stably and asynchronously by using **RabbitMQ** as message middleware.

Xiaogechuangxin Technology, Beijing, China

Dec. 2018 – May. 2019

Software Engineer Intern

- Developed the new feature of hybrid app **Hostex** by using **React-Native**, **Redux**, and **React Native Router** to provide improved administrator permissions for team members.
- Engineered mobile pages of **Hostex** with **Vue**, **Vuex**, and **Vue Router** and implemented **MessageHandler** module to construct and handle message between mobile pages and native **Hostex** App.
- Reduced the delay of Calendar of House page from **1000ms** to **150ms** by detaching the high-cost operation from UI rendering, caching the data, and **lazy loading**.
- Reviewed and reduced redundancy rates of **4000 lines** of code base by refactoring and abstracting business logic part into the same component.

SELECTED PERSONAL PROJECTS

Stream Video Website

May. 2020 – Jul. 2020

- Implemented a stream video website by **Golang** (**Gin framework**) to provide video browsing, uploading and commenting functions to enable people to share interesting videos.
- Divided back-end architecture into three different micro services (Restful API, Stream Service, Scheduler) to scale out system more easily.
- Controlled flow rate of website by applying **Token Bucket Algorithm** to prevent DDoS attack.
- Developed Scheduler package by using **Consumer-Producer Model** to handle concurrency scenarios such as deleting useless videos periodically in the cloud.
- Deployed the program in **Alibaba Cloud** with **SLB**(Server Load Balancer) to increase the stability and response speed of the website.

Distributed Web Crawler

Feb. 2020 – Apr. 2020

- Obtained nearly **3 million** users' information in a dating website by **Golang** and indexed data in **Elasticsearch** to enable people search and filter their matched date precisely and quickly.
- Constructed communication between different servers by **JSON RPC**.
- Deployed the program in different servers with unique IP address to prevent anti-crawler and increase **8 times** data acquisition speed over normal single server crawler.
- Displayed the data in an interactive website written by **Vue.js**.

Terminal Blog Theme Based on Hexo

Sep. 2018 – Dec. 2018

- Inspired by serverless blog generator **Hexo**, build customized blog theme Terminal by **Stylus**, **Pug**, **Valine**, and **ECMAScript2015** to allow people generating fancy blog easily which earned **56** stars in GitHub.