

Haolan Yang

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EDUCATION

Northeastern University, Seattle (NEU), WA, US

May. 2022

M.S. in Computer Science, GPA: 3.8

Relevant Courses: Algorithms, Programming Design Paradigm, Database Management Systems, Building Scalable Distributed Systems

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

Relevant Courses: Data Structure, Java, C, Network Programming, Software Engineering, Network Protocol

COMPUTER SKILLS

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

Database/Tools: MySQL, PostgreSQL, 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 **88** stars in GitHub.