Haolan Yang

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EDUCATION

Northeastern University, Seattle (NEU), WA, US   01/2020 - 05/2022(expected)
Major: Computer Science   Degree: Master of Science
GPA: 3.8/4.0

Beijing University of Posts and Telecommunications (BUPT), **Beijing, China**   09/2015 - 06/2019
Queen Mary University of London (QMUL), London, UK   09/2015 - 06/2019
Major: E-Commerce Engineering with Law
Degree: Bachelor of Management from BUPT, Bachelor of Science in Engineering from QMUL
GPA: 3.7/4.0   Ranking: Top 17/179

COMPUTER SKILLS

Languages: JavaScript (3 years), TypeScript, Java, Go
Database/Tools: MySQL, MongoDB, Redis, Elasticsearch, Docker, Maven, Git
Web Development: Node.js, React.js, Vue.js, Spring, Springboot, MyBatis, Gin

WORK EXPERIENCE

Cloudwalk, Shanghai, China   09/2019 - 12/2019
Software Engineer intern

- Encapsulated the authentication package being used by the other 4 teammates which provides authentication service for RESTful API. Utilized **JWT** (JSON Web Token) as authentication protocol and **Redis** as cache to develop this package.
- Applied **SSM (Spring, Spring MVC, MyBatis**) framework to build some **RESTful** APIs for cloud platform which provide face-recognition service for some universities. These APIs include the statistics of specific student movement trajectory within the area that face-recognition camera can detect.
- Used **RabbitMQ** as message middleware to get the information of students.

Xiaogechuangxin Technology, **Beijing, China**   12/2018 - 05/2019
Software Engineer intern

- Applied **React-Native**, **Redux** to develop and maintain hybrid app **Hostex** (app in Android and iOS). **Hostex** is a SaaS (Software as a service) application, one-stop management of availability, rates, guest message and reservations which integrates with Airbnb, Booking, etc.
- Developed the new feature of **Hostex** which provides the rights management for the administrator of the houses. Administrator can assign permissions and properties for team members.
- 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 around **4000 lines code base** and reduced the redundancy by refactoring and abstracting the same business logic part into the same component.

SELECTED PROJECTS

Stream Video Website

- Designed the system architecture and applied **Golang (Gin framework)** and **React.js** to complete the project which provides the video browsing, uploading and commenting functions.
- Divided the system into three different micro services (Restful API, Stream Service, Scheduler).
- Applied Token Bucket Algorithm to control flow rate to prevent DDoS attack.
- Implemented scheduler package to complete Consumer-Producer Model to handle concurrency scenarios.
- Tuned the system architecture for cloud native deployment in Alibaba Cloud.

Terminal Theme Based on Hexo

- Inspired by serverless blog generator **Hexo**, adapted **stylus**, **pug**, **Valine**, and **ECMAScript2015(JavaScript)** to build my own blog theme **Terminal**.
- **55 stars** in GitHub to date and being used by someone else for their own blog.

Distributed Web Crawler

- Got nearly **3 million** users' information in a dating website(www.zhenai.com) by **Golang** and stored data in **Elasticsearch**.
- Applied **RPC** protocol to make communication between different servers.
- Deployed the program in different servers with deferent IP addresses to prevent anti-crawler and increase around **8 times** data acquisition speed than normal single server crawler.
- Displayed the data in an interactive website which is written by **Vue.js**.