

# Haolan Yang

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## EDUCATION

<b>Northeastern University</b> <i>M.S. in Computer Science, GPA: 3.8</i> <b>Courses:</b> Algorithms, Programming Design Paradigm, Database Management Systems, Distributed System.	Seattle, US May. 2022
<b>Beijing University of Posts and Telecommunications</b> (Joint Program) <b>Queen Mary University of London</b> <i>B.M.S. in E-Commerce Engineering with Law, GPA: 3.7</i> <b>Courses:</b> Data Structure, Java, C, Network Programming, Software Engineering, Network Protocol	Beijing, China London, UK Jun. 2019

## COMPUTER SKILLS

<b>Languages:</b>	JavaScript, TypeScript, Java, Go, Node.js, C, Shell, HTML, CSS
<b>Database/Tools:</b>	MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Docker, Maven, Git, Junit, Webpack
<b>Frameworks:</b>	Express.js, Koa.js, React.js, Vue.js, Spring, SpringMVC, SpringBoot, MyBatis, Gin, GORM

## WORK EXPERIENCE

<b>Cloudwalk Technology</b> <i>Software Engineer Intern</i>	Shanghai, China Sep. 2019 – Dec. 2019
<ul style="list-style-type: none"><li>• <b>EaseCloud:</b> Facial Recognition Cloud Platform</li><li>• Created <b>RESTful APIs</b> with <b>SSM (Spring, Spring MVC, MyBatis)</b> framework for cloud platform, including facial recognition, login, register, statistics services.</li><li>• Implemented the security package by using <b>Spring Security, JWT</b> (JSON Web Token) to provide authentication service for the whole team, and used <b>Redis</b> as cache to decrease response time by 40%.</li><li>• Boosted server response 3 times faster by using <b>RabbitMQ</b> as message middleware which detached asynchronous tasks.</li><li>• Utilized <b>Docker</b> to containerize the project to guarantee standardization and easy-deployment.</li></ul>	
<b>Grid Technology Co., Ltd.</b> <i>Software Engineer Intern</i>	Beijing, China Dec. 2018 – May. 2019
<ul style="list-style-type: none"><li>• <b>Hostex:</b> One-Stop House Renting Management App</li><li>• Developed the new feature of <b>Hostex</b> by using <b>React-Native, Redux</b>, and <b>React Native Router</b> to provide authority allocation service for users' team.</li><li>• Engineered mobile pages of <b>Hostex</b> with <b>Vue, Vuex</b>; implemented the MessageHandler module for our team to handle messages between mobile pages and the native app.</li><li>• Reduced the delay of Calendar of House page from 2000ms to 100ms by detaching the high-cost operation from UI rendering, caching the data, and lazy loading.</li><li>• Reviewed and reduced redundancy rates of 4000 lines of code base by refactoring and abstracting the same business logic component.</li></ul>	

## SELECTED PROJECTS

<b>VideoShare</b> – Golang Based Stream Video Website (Full Stack)	May. 2020 – Jul. 2020
<ul style="list-style-type: none"><li>• Implemented website by <b>Gin</b> and <b>GORM</b> to provide video browse, upload and comment functions which allowed users sharing videos.</li><li>• Divided back-end architecture into three different micro services (Restful API, Stream Service, Scheduler) to scale out the system more easily.</li><li>• Controlled web traffic by applying <b>Token Bucket Algorithm</b> to prevent DDoS attack.</li><li>• Developed Scheduler package by using <b>Consumer-Producer Model</b> to handle concurrency scenarios effectively such as deleting useless videos periodically in the cloud.</li><li>• Deployed the program in <b>Alibaba Cloud</b> with <b>SLB</b>(Server Load Balancer) to increase the stability and response speed of the website.</li></ul>	
<b>Soulmate</b> – Golang Based Dating Website (Full Stack)	Feb. 2020 – Apr. 2020
<ul style="list-style-type: none"><li>• Collected <b>3 million</b> users' information in a dating website by <b>Golang</b> and indexed data in <b>Elasticsearch</b> to enable people search and filter their ideal date precisely and quickly.</li><li>• Constructed communication between different servers by <b>goRPC</b> and deployed the program with <b>Docker</b> among them which increased 8 times data acquisition speed over normal single server crawler.</li><li>• Displayed the data in an interactive website written by <b>Vue.js, Sass, HTML</b>.</li></ul>	
<b>Terminal</b> – Hexo Based Blog Theme (Front End)	Sep. 2018 – Dec. 2018
<ul style="list-style-type: none"><li>• Inspired by serverless blog generator <b>Hexo</b>, built the customized blog theme Terminal which allowed people to generate fancy blogs easily and earned 150 stars on GitHub.</li><li>• Created front-end features of blog by using <b>JavaScript, Stylus, Pug</b> and integrated blog with <b>Valine</b> to enable comment service.</li></ul>	