Zhuang Liu

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EDUCATION

University of California, Irvine   Irvine, CA
M. S. in **Networked Systems**   *Sept '18 - June '20*
Dept. of **Computer Science**, ICS & EECS Joint Program
Zhejiang University   Hangzhou, China
B. S. in **Resource Science**   *Sept '14 - June '18*
Environmental Resource Information System & Remote Sensing Track

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SKILLS

Languages   Java, JavaScript, Python, Swift, Objective-C, Bash, SQL, LaTeX
Tools   git, AWS, RESTful APIs, MongoDB, MySQL, Docker, Vi/Vim
Frameworks   Vue, Angular, Node, Express, Django, Cocoa

EXPERIENCE

Software Development Engineer Intern   Hangzhou, China
WeiEase Tech   *Mar '18 - July '18*

- Crafted search result views in **Objective-C** and optimized **CRM** search logic layer
- Transferred and rearchitected parts of UIKit Cocoapod from Objective-C to **Swift**
- Developed an admin dashboard for content management using **Vue.js** and **Element UI**

PROJECTS

Distributed Search Engine
Python / Scrapy / MySQL / Redis / ElasticSearch / Django   *Jan '18 - Mar '18*

- Devised crawl spiders to retrieve and extract raw **HTML** from websites by **Scrapy-Redis** framework
- Broke through anti-crawling by user-agent switching, IP proxy, auto-verification code recognition
- Rewrote Downloader Middleware with **Selenium** and **Phantom.js** for dynamic web pages crawling
- Developed suggester, search history and auto-complete features with **Django** and **ElasticSearch**

MEAN-Stack Online Message Board
Angular / Node.js / MongoDB / Express.js / TypeScript   *Dec '17 - Jan '18*

- Designed and developed responsive SPA using **Angular Material** Design components
- Deployed **RESTful Microservices** using **Express.js**, **Node.js** and **MongoDB** as backend
- Implemented **JWT** authentication, optimized user experience with **AJAX** and **Bootstrap** layout

Socket.io Chat System
Socket.io / Unity / C# / MVC / WebView / MySQL / jQuery   *Sept '17 - Nov '17*

- Implemented message transmission feature by **WebSocket** network protocols
- Developed WebSocket server in **C#** to parse protocols and manage chat message transmission
- Built UI Components by **Unity**, utilized **WebView** controller in parallel **Android** chat system

iOS Machine Learning Vector Calculator
Swift / Cocoa / Python / Core ML / Core Data / SQLite / Realm   *Mar '17 - June '17*

- Converted MNIST database into MLModel by **Core ML** tools to recognize handwritten equations
- Developed a **SQLite** database back-end for local **Core Data** management using **Datum**
- Deployed **Realm** method for historical mathematical computing data persistence