Zhuang Liu

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EDUCATION

University of California, Irvine — Irvine, CA
M. S. in **Networked Systems** — *Sept 2018 - June 2020*
Dept. of **Computer Science**, ICS & EECS Joint Program
Courses(taking): Computer Networks, Machine Learning, Analysis of Programming Languages
Zhejiang University — Hangzhou, China
B. S. in **Resource Science** — *Sept 2014 - June 2018*
Environmental Resource Information System & Remote Sensing Technology Track
Courses: Database Systems, Objected Oriented Programming in Java, Operating Systems, Data Structures, Data Mining Technologies, Algorithm Design and Analysis, C Programming

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 2018 - July 2018*

- 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 2018 - Mar 2018*

- 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 2017 - Jan 2018*

- 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 2017 - Nov 2017*

- 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 2017 - June 2017*

- 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