Zhuang Liu

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EDUCATION

UC Irvine
M. S. in Networked Systems
ICS & EECS Joint Program, Dept. of Computer Science

Irvine, CA
Sept '18 - June '20

Zhejiang University
B. S. in Resource Science
Environmental Resource Information System & Remote Sensing Track

Hangzhou, China
Sept '14 - June '18

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
WeiEase Tech

Hangzhou, China
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 a crawl spider 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 and Node.js backend and MongoDB database
- 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 / CoreML / CoreData / SQLite / Realm　　　*Mar '17 - June '17*

- Converted MNIST database into MLModel by CoreML 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