

# Zhuang Liu

<http://im.zhuangliu.info>

Greater Los Angeles Area  
3601 Parkview Ln, Irvine, CA 92612  
zhuangl4@uci.edu | zhuangliulz@gmail.com  
CSS Animated Résumé : <http://blog.zhuangliu.info/resume>  
Linkedin : <https://linkedin.com/in/zhuangliudev>  
Github : <https://github.com/zhuangliulz>  
Blog : <http://blog.zhuangliu.info>  
+1(909)-282-5432

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|------------|---|---|
| EDUCATION  | <p>University of California, Irvine<br/>M. S. in Networked Systems<br/>Dept. of Computer Science, ICS &amp; EECS Joint Program<br/>Courses(taking): Computer Networks, Machine Learning, Analysis of Programming Languages<br/>Zhejiang University<br/>B. S. in Resource Science<br/>Environmental Resource Information System &amp; Remote Sensing Technology Track<br/>Courses: Database Systems, Objected Oriented Programming in Java, Operating Systems, Data Structures, Data Mining Technologies, Algorithm Design and Analysis, C Programming</p>   | <p>Irvine, CA<br/>Sept 2018 - June 2020<br/>Hangzhou, China<br/>Sept 2014 - June 2018</p>   |
| SKILLS     | <p>Languages<br/>Tools<br/>Frameworks</p>   | <p>Java, JavaScript, Python, Swift, Objective-C, Bash, SQL, LaTeX<br/>git, AWS, RESTful APIs, MongoDB, MySQL, Docker, Vi/Vim<br/>Vue, Angular, Node, Express, Django, Cocoa</p> |
| EXPERIENCE | <p>Software Development Engineer Intern<br/>WeiEase Tech</p> <ul style="list-style-type: none"><li>- Crafted search result views in <b>Objective-C</b> and optimized <b>CRM</b> search logic layer</li><li>- Transferred and rearchitected parts of UIKit Cocoapod from Objective-C to <b>Swift</b></li><li>- Developed an admin dashboard for content management using <b>Vue.js</b> and <b>Element UI</b></li></ul>   | <p>Hangzhou, China<br/>Mar 2018 - July 2018</p>   |
| PROJECTS   | <p>Distributed Search Engine<br/>Python / Scrapy / MySQL / Redis / Elasticsearch / Django</p> <ul style="list-style-type: none"><li>- Devised crawl spiders to retrieve and extract raw <b>HTML</b> from websites by <b>Scrapy-Redis</b> framework</li><li>- Broke through anti-crawling by user-agent switching, IP proxy, auto-verification code recognition</li><li>- Rewrote Downloader Middleware with <b>Selenium</b> and <b>Phantom.js</b> for dynamic web pages crawling</li><li>- Developed suggester, search history and auto-complete features with <b>Django</b> and <b>ElasticSearch</b></li></ul> <p>MEAN-Stack Online Message Board<br/>Angular / Node.js / MongoDB / Express.js / TypeScript</p> <ul style="list-style-type: none"><li>- Designed and developed responsive SPA using <b>Angular Material</b> Design components</li><li>- Deployed <b>RESTful Microservices</b> using <b>Express.js</b>, <b>Node.js</b> and <b>MongoDB</b> as backend</li><li>- Implemented <b>JWT</b> authentication, optimized user experience with <b>AJAX</b> and <b>Bootstrap</b> layout</li></ul> <p>Socket.io Chat System<br/>Socket.io / Unity / C# / MVC / WebView / MySQL / jQuery</p> <ul style="list-style-type: none"><li>- Implemented message transmission feature by <b>WebSocket</b> network protocols</li><li>- Developed WebSocket server in <b>C#</b> to parse protocols and manage chat message transmission</li><li>- Built UI Components by <b>Unity</b>, utilized <b>WebView</b> controller in parallel <b>Android</b> chat system</li></ul> <p>iOS Machine Learning Vector Calculator<br/>Swift / Cocoa / Python / Core ML / Core Data / SQLite / Realm</p> <ul style="list-style-type: none"><li>- Converted MNIST database into MLModel by <b>Core ML</b> tools to recognize handwritten equations</li><li>- Developed a <b>SQLite</b> database back-end for local <b>Core Data</b> management using <b>Datum</b></li><li>- Deployed <b>Realm</b> method for historical mathematical computing data persistence</li></ul> | <p>Jan 2018 - Mar 2018<br/>Dec 2017 - Jan 2018<br/>Sept 2017 - Nov 2017<br/>Mar 2017 - June 2017</p>  |