

Zack Zhao

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SUMMARY OF QUALIFICATION

- Experienced software engineer seeking full-time opportunity
- Enthusiastic about making perfect product
- Passionate about tackling software development challenges

TECHNOLOGY SKILLS

Language: JavaScript, Java, C, HTML, CSS

Framework & Library: Node.js, Angular, Angular.js, Express, Socket.io

Database: MongoDB, MySQL

Tools: Docker, Nginx, Redis, VirtualBox, IntelliJ, Git

RELATED WORK EXPERIENCE

Software Engineer, Tax1on1 Inc, Sunnyvale, CA Mar, 2017 Present

Developed WeChat chatbot and Q&A website, increasing monthly average visitors by 21%

- Developed WeChat automated chatbot that is able to answer text and audio questions and supports Wechat event messages
- Implemented chatbot auto-search and email forwarding on back end, improved front end pages, developed frequently asked questions in different categories
- Improved Q&A website front end user interface and implemented WeChat Login module

Skills: JavaScript(ES6), Node.JS, Express, MongoDB, MySQL, RESTful API, HTML, CSS, AWS

Software Engineer&Project Leader, Unionman Technology Co, China Sep, 2010 Jun, 2013

Refactored, redesigned, implemented and led team to develop multiple application software projects on TV set top box (Linux ARM embedded software platform)

- Contributed to refactor of user interface, fixed architectural defects, improved its reliability
- Collaborated with teammates to redesign the advertisement module, enhanced module's maintainability and reduced development cycle time by 30%
- Led team of six on Heilongjiang TV project, optimized key valuation parameters, helped generated one million orders, and became largest set-top box provider that year

Skills: C, MVC, Object Oriented Design, DVB-C protocol, Multithreading, XML, Linux, SVN

RELATED PROJECTS

Collaborative Online Judge System:

- Implemented a web-based collaborative code editor which supports multiple user editing simultaneously
- Designed and developed a single-page web application for coding problems
- Built a user-code executor service which can build and execute user's code
- Refactored and Improved system throughput by decoupling services using RESTful API and loading balancing by Nginx

Skills: JavaScript, AngularJS 4, Node.js, Express, Redis, MongoDB, Docker, RESTful API, Socket.io, Nginx, Linux, VirtualBox, Git, Apache Bench, AWS

TinyURL (URL shortener) Service:

- Developed a Rest API server using Node.js, Express, a Single page web UI using AngularJS and Bootstrap
- Persisted application data using MongoDB, used Redis as cache to improve performance
- Employed Nginx HTTP server with load balancer, proxy server to handle thousands of RPS
- Dockerized the server and ran multiple instances of it

Skills: JavaScript, Node.js, Express.js, Angular.js, MongoDB, Docker, Nginx, Redis, Git

EDUCATION

Pace University, Computer Science master's degree, GPA 3.97

Graduated on December 2016

Guangxi University, Information Automation bachelor's degree

Graduated on July 2008