Zack Zhao

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SUMMARY OF QUALIFICATION

- Experienced software engineer seeking full-time opportunity
- Enthusiastic about making perfect procut
- Passionate about tackle coding challenges

TECHNOLOGY SKILLS

Language: C, JavaScript, Python, C++, HTML, CSS

Database: MongoDB, MySQL

RELATED WORK EXPERIENCE

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

Developed WeChat chatbot and maintained Q&A website, increased monthly average visitors by 21% in total

- Developed WeChat chatbot that is able to answer text and audio questions and supports WeChat event messages
- Designed and implemented chatbot auto-search and email forwarding on back-end, improved front end pages, designed and developed frequently asked questions page
- Improved Q&A website front end user interface and implemented WeChat Login module Skills: Node,JS, JavaScript, MongoDB, MySQL, RESTful API, JSON, HTML, CSS, AWS

Graduate Assistant, Robotic Lab, Pace University, NY May, 2016 Dec, 2016

Worked on object detection sub-systems in a robotic car project

- Implemented an image difference detection module using cascade classifiers, feature detectors
- Applied CUDA to improve efficiency of detection in massive moving objects by 17% Skills: C++, OpenCV, CUDA Parallel Programming, Linux, Git

Software Engineer&Project Leader, Unionman Technology Co, China Sep, 2010 Jun, 2013 Refactored, redesigned, implemented 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 maintainbility 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

PROJECTS

Collaborative Online Judge System

- Developed a web-based collaborative code editor 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, Python, Angular, Node.js, Express, Redis, MongoDB, RESTful API, Nginx, Linux, VirtualBox, Git, Atom, Apache Bench, AWS, Linux, Git

Distributed Tiny Url Web Application

- Design and developed a Rest API server using MEAN stack
- Persisted application data using MongoDB, used Redis as cache to improve performance
- Employed Nginx HTTP server with a load balancer and proxy server to handle thousands of RPS
- Dockerized the server and scaled up the server into multiple instances

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

EDUCATION

Pace University, Computer Science master's degree, GPA 3.97 Guangxi University, Bachelor of Science Graduated on December 2016 Graduated on July 2008