

# **Zack Zhao**

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## **EDUCATION**

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

## **RELATED WORK EXPERIENCE**

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

Working on Tax1on1 Official Account (Facebook public page-like) development

- Developed custom-defined menus, homepage and added link to tax1on1 question and answer website, generated 21% more average number of visits per day on Q&A website
  - Build up article publication, user msg auto reply and access token updates service on backend
  - Applied Koa framework with Promise, Generator to improve maintainability and readability
- Skills: NodeJS, Koa, MongoDB, HTML, CSS, JavaScript(ECMAScript 2015), XML, JSON, Git

**Graduate Assistant, Robotic Lab, Pace University, New York, NY    Mar.2016 Dec.2016**

worked on object detection sub system in a robotic car project

- Implemented frames difference detection using cascade classifiers and 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, Shaanxi Lehua Technology Co., Shaanxi, China    Oct.2013 Mar.2015**

worked on Catalog sub systems in a VOD (video on demand) distributed system

- Contributed to Catalog Manager system, designed user roles and permissions, implemented video sources management, including import, update, edit, page generation and review
  - Developed Catalog Display system, implemented MVC of play, purchase, history and guide
  - Implemented synchronization between Catalog Manager and multiple Catalog Display servers
- Skill: Java, J2EE 1.4, JSP, Servlet, Struts, Oracle9i DB, HTML, CSS, JavaScript, jQuery, Tomcat 5, XML, B/S model, MVC, MyEclipse, SVN

**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 GUI system, fixed architecture defects, improved availability, reliability
- Collaborate with teammates to redesign ADV module, enhanced readability, availability and reduced development cycle time by 30%
- Led team of six in Heilongjiang TV project, optimized key valuation parameters and generated one million orders, became the 1st providers that year

Skills: C, MVC, DVB-C protocol analysis, Pthread Multi-Threading, Linux, ARM, SVN

## **PROJECT**

**Implemented TinyURL (URL shortener) Service:**

- Built a web server using MEAN stack (MongoDB, Express, AngularJS and Node.js)
- Employed Redis as cache database and Nginx as reverse proxy server and load balancer
- Dockerized the server and ran multiple instances of it

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

## **TECHNOLOGY SKILLS**

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

Framework & Library: NodeJS, Koa, Express, Java EE, Struts, OpenCV, jQuery, AngularJS

DataBase: Oracle DB, MongoDB