

# **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 development based on WeChat Platform

- 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.js framework with Promise, Generator to improve maintainability and readability

Skills: Node.js, Koa.js, MongoDB, HTML, CSS, JavaScript(ES6), XML, JSON, Git, RESTful

**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&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, Subversion

## **PROJECTS**

**TinyURL (URL shortener) Service:**

- Built a web server using MEAN stack (MongoDB, Express, Angular.js 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.js, Angular.js, MongoDB, Docker, Nginx, Redis, Git, IntelliJ

**Tap News: Real Time News Scraping and Recommendation System**

- Implemented a data pipeline which monitors, scrapes and dedupes latest news (MongoDB, Redis, RabbitMQ, TF-IDF)
- Built a single-page web application for users to browse news (React.js, Node.js)
- Designed and built an offline training pipeline for news topic modeling (Tensorflow, DNN, NLP)
- Deployed an online classifying service for news topic modeling using the trained model
- Implemented a click event log processor which collects users' click logs, then updates a news preference model for each user (NLP)

Skills: JavaScript, Python, React.js, Node.js, Express.js, Redis, MongoDB, Tensorflow, NLP, Linux, VirtualBox, Git, Sublime(Atom/Vim), Postman

## **TECHNOLOGY SKILLS**

JavaScript, Python, C, C++, HTML, CSS, Node.js, Koa.js, Express.js, Angular.js, React.js, MongoDB, Redis, RabbitMQ, Tensorflow, Nginx, OpenCV, CUDA, Linux, Git, Subversion