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, REST

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, SVN

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, Angular.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