

# Michael Zhou

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## EDUCATION

University of Southern California Los Angeles, CA

Sep. 2016 - May 2018

M.S. COMPUTER SCIENCE, GPA: 3.85

Zhejiang University(ZJU) Hangzhou, China

Sep. 2012 - Jul. 2016

B.S. COMPUTER SCIENCE AND TECHNOLOGY, GPA: 3.75/4.0, major GPA: 3.84/4.0

## SKILLS

**Language:** C++, Python, Java, Shell, JavaScript, L<sup>A</sup>T<sub>E</sub>X

**Frameworks and Tools:** TensorFlow, Git, Firebase, OpenGL, Spring, MongoDB, MySQL, NodeJS, Express, Scrapy, Polymer, Angular, Qt, ECharts

## EXPERIENCE

Alphabet Inc.(Google), Mountain View, CA

SOFTWARE ENGINEER INTERN

May 2017 - Aug. 2017

- **FEAT-Timeline:** Established a complete data pipeline to visualize the real running time of a test target in both process level(process dependencies) and thread level(CPU thread schedule) for an E2E test framework independently.
- **FEAT-Logmixer:** Established a complete data pipeline and a visualization tool to merge, filter and visualize relating test logs to improve diagnostics within an E2E test framework independently.
- **HvZ Client:** Developed an Android app to be used by players in Google 2017 'Human vs Zombies' event.

AZTechX Co.,Ltd, Shanghai, China

SOFTWARE ENGINEER INTERN

Oct. 2015 - Jan. 2016

- **Ads Marketing Tool:** Collaborated to develop an automatic ads marketing tool which helps marketing stuff to monitor, modify and predict ads marketing data. This tool saves marketing stuff a lot of time and energy.
- **Ads Revenue Predict Model:** Implemented a real-time service to predict the revenue of a specific ads keyword based on historical data. Significantly avoided unnecessary benefit loss by filtering some bad ads keywords out.

USC Marshall School of Business, Los Angeles, CA

RESEARCH ASSISTANT

Jan. 2017 - Present

- **Web Crawler:** Finished a web crawler using Scrapy to crawl all financial articles from *Seekingalpha*. I also finished cleaning the data and ran LDA model on these articles.
- **Events Extractor:** Collected data and developed a tool to extract raw texts from structured PDF document. Extracted financial business events between US and China from news articles using topic models and TABARI.

The State Key Lab of CAD&CG, Hangzhou, China

RESEARCH ASSISTANT

Sep. 2014 - Jun. 2016

- **ShotVis:** Creatively established a knowledge base with ProbCog(Alchemy based) and independently developed an intelligent system to find and implement(ECharts) optimal visualization for a specific table. Demo here
- **HINs on Github:** Ranked Github users with Heterogeneous Information Networks(HINs) constructed on 500000+ pieces of Github user and repository data. This method was proved to have both higher precision and recall rate.

## PROJECTS

TensorFlow r1.5, *Community Contribution*, Contributor

Oct. 2017 - Present

- Independently reconstructed 2 implemented *smart\_cond* API and corresponding wrapper. Pull Request#13954
- Working on Authentication(Issue#12964) and Simple Recurrent Unit(Issue13094).
- The most challenging point is to understand and keep original TensorFlow architecture while developing new API as TensorFlow is now such a big project.

Online Call Quality Rating System, *Hackathon Project*, Developer in a team of two

Jun. 2015

- Won the second-class Prize(Prized by Huawei) and ranked 3rd in 2015 'Huawei Cup' Innovation Competition.
- Explored and exploited online call quality rating system that converts, analyzes and rates a live video stream.
- The most difficult point is how to give user-oriented and real-time analysis based on incomplete as well as unstable H.264 stream. Creatively solved the problem by applying motion detection and optimizing matrix operation.

Pascal Compiler, *Course Work*, Collaborated in a team of two

May 2015

- Wrote a program that parses, verifies the grammar and emits X86-assembly for basic Pascal.
- This is the most difficult project that I have met so far. The most difficult part is code generation phrase.