

# 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 & ACTIVITIES

**Language:** C++11(System Development), Python(Tool/Community Contribution), JavaScript, Shell Script,  $\LaTeX$

**Frameworks and Tools:** TensorFlow, Bazel, ROS, Docker, Git, PostgreSQL, Polymer, Angular, React, Django, Scrapy

**Hackathon:** 2015 Huawei Hackathon(2/140), 2016 ByteCup(21/500), 2017 SoCal Datathon(6/25), 2018 ByteCup(Ongoing)

## EXPERIENCE

**WeRide.ai (L4 Self-Driving Car Startup)**, Sunnyvale, CA

SOFTWARE ENGINEER

*Jan. 2018 - Present*

- Main architector, developer and maintainer of company-level configuration language: Developed tokenizer, parser and evaluator in Python with Google coding style.
- Lead project of global service to load Python configuration (C++ metaprogramming/Python): Full interoperability between C++ and Python 3 code.
- Lead MPI (Mile Per Interaction) metrics data pipeline project: logs (Logger)  $\rightarrow$  upload (Multi-threading)  $\rightarrow$  parse(CI)  $\rightarrow$  database(PostgreSQL)  $\rightarrow$  web application(React, Django)
- C++ template library (C++ Metaprogramming) to fuse real-time streaming ROS message from different sources. Currently this library is heavily used on sensor fusion and detection fusion.
- *Side Work:* test coverage, Bazel support, hardware monitor scripts, codes refactoring, docker images management

**Google**, Mountain View, CA

SOFTWARE ENGINEER INTERN

*May 2017 - Aug. 2017*

- 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.
- Established a complete data pipeline 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.

**University of Southern California**, Los Angeles, CA

RESEARCH ASSISTANT, directed by [Prof. Yan Liu](#)

*Jan. 2017 - May. 2018*

- Finished a continual learning library based on Synaptic Intelligence (SI), ICML 2017 and Conceptor-Aided Back-propagation (CAB), ICLR 2017.
- Experimented on merging Wasserstein GANs (WGANs) with Predictive Vision Model (PVM) to generate a more robust generative model.
- Finished a web crawler using Scrapy to crawl all financial articles from *Seekingalpha*.

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

RESEARCH ASSISTANT, supervised by [Prof. Hongxin Zhang](#)

*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 had both higher precision and recall rate than PageRank.

## PROJECTS

**TensorFlow r1.7**, *Open-source Community Contribution*, Contributor

*Oct. 2017 - Present*

- Contributed *smart\_cond*([official doc](#)) and *smart\_constant\_value*([official doc](#)) through [Pull Request#13954](#)
- Working on [Exponential Integral](#)([Issue#20462](#)) and [Inverse Discrete Cosine Transform](#)([Issue#20188](#)).