

Michael Zhou

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EDUCATION

University of Southern California Los Angeles, CA

Sep. 2016 - May 2018

M.S. COMPUTER SCIENCE

Zhejiang University (ZJU) Hangzhou, China

Sep. 2012 - Jul. 2016

B.S. COMPUTER SCIENCE AND TECHNOLOGY

SKILLS & ACTIVITIES

Language: C++11(System Development), Python(Tool/Community Contribution), Java, JavaScript, Shell, L^AT_EX

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

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

EXPERIENCE

Google, New York, NY

SOFTWARE ENGINEER III

Feb. 2019 - present

- Led a team of 6 engineers on data generate/setup framework (Java, Python, Dart) for Google Ads.
- Data sampling framework and algorithms (Java) over huge data (PB/EB size) for Google Ads.
- Continuous data exporting service for fully-automatic test data setup.
- Team releasing pipeline, library/algorithm performance improvement, customer support, OKR design, leadership

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

EARLY SOFTWARE ENGINEER

Jan. 2018 - Jan. 2019

- Main architect, developer and maintainer of company-level configuration language: Developed tokenizer, parser and evaluator in Python with Google coding style.
- Led project of global service to load Python configuration (C++ metaprogramming/Python): Full interoperability between C++ and Python 3 code.
- Led MPI (Mile Per Interaction) metrics data pipeline project: logs (Logger) -> upload (Multi-threading) -> parse(CI) -> database(PostgreSQL) -> 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](#) & [Prof. Forester Wong](#)

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 and researched on merging Wasserstein GANs (WGANs) with Predictive Vision Model (PVM).
- 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](#)).

Bytecup 2016, *Machine Learning Hackathon*, Team Lead

Sep. 2016 - Nov. 2016

- Final ranking: 21/500+. Final paper here: [link](#)
- Developed and trained a high-quality recommendation system with collaborative filtering delivering questions to potential users to answer for a knowledge sharing platform like Quora.