Michael Zhou

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EDUCATION

University of Southern California Los Angeles, CA *Sep. 2016 - May 2018*

M.S. Comupter Science, GPA: 3.85

Zhejiang University(ZJU) Hangzhou, China *Sep. 2012 - Jul. 2016*

B.S. Comupter Science and Technology, GPA: 3.75/4.0, major GPA: 3.84/4.0

SKILLS

Language: Python(Tool/Community Contribution), C++(System Development), Java, Shell Script, JavaScript LaTeX

Frameworks and Tools: TensorFlow, Bazel, ROS, Docker, Git, MySQL, Polymer, Angular, React, Qt, Django, Scrapy

EXPERIENCE

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

Software Engineer *Jan. 2018 - Present*

- **Fusion & Tracking**: Sensor and perception fusion algorithm and corresponding implementation.
- **JCON(Jingchi Configuration Project)**: Main architector, executor and owner of the project. Finished design and implementation: tokenizer, parser and evaluator. Working on JCON v2 to make configuration easier.
- **MPI data pipeline(solo)**: data collecting -> uploading -> parsing -> tagging -> database -> visualizing
- **Side Work**: test coverage, Bazel support, hardware monitor scripts, codes unification, docker images management

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.

University of Southern California, Los Angeles, CA

Research Assistant, directed by Prof. Yan Liu *Jan. 2017 - May. 2018*

- **Continual Learning library**: Finished a continual learning library based on Synaptic Intelligence (SI), ICML 2017 and Conceptor-Aided Backpropagation (CAB), ICLR 2017.
- **Generative Model**: Experimented on merging Wasserstein GANs (WGANs) with Predictive Vision Model (PVM) to generate a more robust generative model.
- **Web Crawler**: 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 was proved to have both higher precision and recall rate.

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 Expotential Integral(Issue#20462) and Inverse Discrete Cosine Transform(Issue#20188).

Online Call Quality Rating System, *Huawei Hackathon*, Developer in a team of two *Jun. 2015*

- Won the second-class Prize(Prized by Huawei) and ranked 3rd in 2015 'Huawei Cup' Hackathon.
- 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.