

# Guohang Yin

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## EDUCATION

### University of Southern California Master of Science in Computer Science

August 2017 - July 2019

- **Overall GPA:** 4.0/4.0
- **Core Courses:** Algorithm, Artificial Intelligence, Machine Learning, Web Technologies
- **Current Courses:** Data Science in Social Systems

### Shanghai Jiao Tong University Bachelor of Engineering in Software Engineering

September 2013 - July 2017

- **Overall GPA:** 87.43/100     **Major GPA:** 90.08/100
- **Core Courses:** Programming (Python, C++), Mathematical Logic, Computability Theory, Principle and Technology of Database, Software Engineering, Principle and Technology of Compiler, Operating Systems, Computer Graphics, Computer System Engineering, Distributed System

## EXPERIENCE

### Alibaba

#### Code Quality Evaluation

May 2018 - August 2018

- Collected and preprocessed data (open source code) from website and calculated features according to traditional metric models (MOOD, C&K, C&L, L&H)
- Utilized handcrafted features to train traditional models for predicting quality of code as baseline
- Constructed advanced models code2vec, graph2vec, Tree-based CNN to maintain more information from source codes to predict quality
- Deployed java code on MaxCompute (Alibaba's Data Processing Platform for Large-scale Data Warehouse) leveraging Map-Reduce technology to deal with Alibaba's tremendous source code
- *Tools & Techniques:* Java, TensorFlow, scikit-learn, Attention, Machine Learning, AI, Map-Reduce

### Morgan Stanley

#### PGE Transplant and Reconstruction

July 2016 - September 2016

- Transplanted PGE (Policy Generated Entitlement) Engine to Solaris and refactored PGE library to enable implementation of entitlement management tools on Solaris
- Refactored the program by using cross-platform C++11 new features
- Solved problems caused by different usages of archiver on different OS
- *Tools & Techniques:* C++, Premake, Linux makefile grammar, Bash Scripting

## PROJECTS

### Hybrid Chinese Name Detection

December 2016 - May 2017

- Improved accuracy of Chinese name detection to make speech synthesis more expressive
- Implemented text analysis part of speech synthesis including segmentation, POS tagging, name entity recognition and prosody and polyphony prediction
- Combined segmentation, POS tagging and name detection to make full-context-label more accurate
- *Tools & Techniques:* Python, Linux Command, NLP

### Colorigami

May 2016 - June 2016

- Created a software to customize folding paper, by firstly folding and coloring virtual paper in computer, and then exporting a pdf
- Designed format of data files implementing mapping of paper from 3D to 2D
- Utilized python to generate pdf of pictures generated by data structures of programming
- Assigned works to teammates and fixed problems caused by integration
- *Tools & Techniques:* Unity, Python, 3dsmax, Leadership, Teamwork

### ACare - Server of a Game Developed for Autistic Children

July 2015

- Implemented live video through Intel Real Sense Camera
- Wrote codes of server back end by SSH, designed database and wrote front end of website by jQuery
- *Tools & Techniques:* HTML, Bootstrap, jQuery, Java Web, MongoDB, SSH framework

## PROFESSIONAL SKILLS

- Machine Learning: TensorFlow, scikit-learn
- Programming: Python / C/C++ / Java / JavaScript
- Web: HTML, CSS, JavaScript / jQuery / Angular; Java Web SSH / Django; Python urllib/scrapy; MySQL

## HACKATHON

- LA Hack (First Prize) 2018  
Built a web app to help people find missing things by using cameras and object detection
- Hack x SJTU (First Prize) 2017  
Constructed an assistant android app to help people reciting things like laws and regulations