

Changlin(Vicky) Zhang

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EDUCATION

- **University of Southern California** Los Angeles, United States
M.S in Computer Science Dec. 2019
- **Zhejiang University** Hangzhou, China
B.Eng in Software Engineering, 3.81/4.0 (Award: Outstanding Graduate) Jun. 2018

PROFESSIONAL EXPERIENCE

- **Intel Corporation** Shanghai, China
Software Engineer Intern Apr. 2018 - Jul. 2018
 - Contributed to Analytics Zoo, an open-source distributed analytics platform.
 - Built deep learning applications on Spark, including anomaly detection, image augmentation and object detection.
 - Developed the module of image transformers with 16 Scala classes and applied polymorphism design to enable sequential operations.
 - Reduced RNN model memory from 22g to 8g by feature engineering and model modification.
 - Wrapped bottom-level APIs to high-level APIs and migrate Scala workflow to Python workflow.
 - Reconstructed interactive applications to jupyter and generated the pipeline to test these applications on Jenkins.
- **Owtware Technology Co.,Ltd** Shanghai, China
Software Development Engineer Intern Feb. 2017 - May. 2017
 - Worked on Filegear, a private cloud service that supports cloud file management and sharing.
 - Built account settings module for iOS client using Swift and completed UI renovation to target iOS users.
 - Constructed backend APIs to enable the development of new features including avatars and uploading files.

SELECTED PROJECTS

- **Entertainment Event Search** Jan. 2019
 - Constructed a web application for users to search entertainment events.
 - Achieved the responsive frontend using bootstrap and AJAX using Angular and jQuery.
 - Deployed the server on AWS Elastic Beanstalk and utilizing json data from third-party services.
- **Online Image Segmentation System** Jun. 2018
 - Provided a web system based on Flask to support online image segmentation.
 - Enabled batch training actions and showed real-time process in user interface.
 - Designed multi-thread logics to handle advanced auto-preview and auto-sync.
- **GooDu Search Engine** May. 2017
 - Simulated prevailing search engines with a web system based on Django.
 - Highlighted the query words in search results in the frontend for better user experience.
 - Construct Vector Space Model and added advanced features (e.g. synonym query, wildcard query and spelling correction).
- **CSCW Markdown Editor** Dec. 2016
 - Developed a MD editor with navigation bar, html preview, import css and export docx.
 - Supported multiple editors, any key or mouse action in one will take action at the other side.
 - Designed multi-thread logics to handle advanced auto-preview and auto-sync.
- **Concise SQL engine** Jun. 2016
 - Concise SQL engine (Database Management System) for single user to create and delete tables, indexes, records and select records thorough a character interface.
 - Implemented a buffer manager module with Least Recently Used (LRU) and pin function to minimize disk read.
 - Implemented an interpreter module and designed the flow of control and parse tree.

PROGRAMMING SKILLS

- **Programming Language:** C/C++, Java, Python, Scala, Swift, HTML, JS, CSS, SQL
- **Tools and Framework:** Spark, Jenkins, ReactJS, NodeJS, Flask, Django, Jupyter Notebook