XINLONG YI

Riverside,CA

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EDUCATION

University of California, Riverside *Sep. 2019 - Present*
Computer Science, Master GPA: 3.95/4
Dalian Maritime University *Sep. 2014 - Jun. 2018*
Intelligence Science and Technology, Bachelor Rank: 4/50

TECHNICAL SKILLS

Computer Languages	Python, JAVA, SCALA, C/C++, HTML, SQL, Shell
Frameworks	Django, Flask, Scrapy, Spark, Spark-ML, Sickit-learn, Keras, Tensorflow
Platforms & Tools	AWS, Docker, Tomcat, Git, MySQL, Hadoop, CMake

WORK EXPERIENCE

Suning, Decision and Optimization Laboratory *Aug. 2018 - Jun. 2019*
Algorithm Engineer *Nanjing, Jiangsu*

- Developed recommendation algorithms based on **Scala** and **Spark ML** framework for a video platform
- Rewrite the data processing script in **SQL** and optimized the **Spark SQL** tasks, which saved **20%** time of daily offline computation
- Applied the **Collaborative Filtering** and **Logistic Regression** for the content page; increased Click Through Rate(CTR) by **15%** and Average Views by **26%**

PROJECTS

3D Road Map Visualization *Sep. 2019 - Dec. 2019*
project site

- Developed a program by using **Scala** and **Spark** to convert 2D road map data into 3D and visualize it
- Stored and processed big data by using **Hadoop** and handled the geology files by using **Geotrellis**
- Applied **Delaunay Triangulation** algorithm to process the missing points and visualized through Goole Earth

Tencent Advertising Algorithm Competition *Feb. 2019 - Apr. 2019*

- Developed algorithms by using **Python** and **AWS EC2** to predict the exposure of advertisements
- Implemented LSTM by using **Keras**, XGBoost and Random Forest by using **Sickit-learn**
- Combined models by using stacking, which improved our grade by **0.3**; ranked **top 10%** over 1000 teams

Q&A Matching System for Bank *Mar. 2018 - Jun. 2018*
code

- Developed a set of RESTful APIs by using **Python** and **Django** to process the credit card related questions
- Segmented the sentences by using **Jieba** and implemented pre-trained Chinese **word embeddings**, which is fine-tuned with our data
- Implemented an **CNN** by using **Keras** to classify the incoming question and return the prepared answer

Gomoku AI *Feb. 2018 - Jun. 2018*

- Developed a Gomoku AI, which can play in human-level, by using **Python**, **Tensorflow** and **Pygame**
- Designed and implemented a **CNN** to evaluate chessboard and trained with data generated by self-play
- Applied **MCTS(Monte Carlo Tree Search)** as framework of this AI and use CNN to speed up the **simulation** process of MCTS