

EDUCATION

- **University of California, San Diego** La Jolla, CA
Master of Science in Electrical and Computer Engineering Sept. 2018 – Dec. 2020
- **Northwestern Polytechnical University** Xi'an, China
Bachelor of Science in Aerospace Engineering Sept. 2014 – Jun. 2018
 - **Awards:** Outstanding students three times. National Entrepreneurship Award.

PROGRAMMING SKILLS

- **Languages:** Python, Scala, Hive, SQL, Java, HTML, C++, Shell, Matlab
- **Skills:** Recommender System, SQL, Machine Learning, Deep Learning
- **Tools:** Git, TensorFlow, PyTorch, Spark, Hadoop, Docker, K8s, Django, Angular6, AWS, Linux/Unix, Vim

PROFESSIONAL EXPERIENCE

- **ByteDance** Beijing, China
Machine learning engineer intern @ Watermelon Video Sept. 2020 – Nov. 2020
 - R&D in **recommender system** for short videos. **A/B test** in the subscription channel.
- **University of California, San Diego** La Jolla, CA
Research Intern & Research Assistant, Advised by Prof. Pengtao Xie Mar. 2020 – Aug. 2020
 - **Self-supervised learning** for few-shot classification.
 - **Detection** of COVID-19 cases using chest radiography images.
 - Medical Video-Text based **Question-Answering system**, dialogue state tracking.
- **Tencent, Inc.** Shenzhen, China
Machine learning engineer intern @ IEG Content Recommendation Center Oct. 2019 – Feb. 2020
 - Deployed 10+ **recommender system** pipelines (Related to Arena of Valor) using **Spark, Redis, MySQL, Django, and K8s**.
 - Research in cutting-edge **CTR prediction** algorithm with **one paper** preprinted. Duty in algorithm implement and improvement based on Tencent game business scene.
 - Built an internal tool related to **tensor factorization** and improved the algorithm based on product requirements. Raised online click rate by **20%** with **one patent** finished.
- **Ping An Insurance (Group) Company of China, Ltd** Beijing, China
Machine learning engineer intern @ Medical and Healthcare Data Mining Group Jun. 2019 – Sept. 2019
 - Participated in projects related to **disease early prediction, diagnosis, medication recommendation and chronic disease control**. Our algorithm research is used in PingAn Good Doctor (DAU 1M).
 - Participated in KDD 2019 **reinforcement learning** track (ranked 11/255), disease control task. Implemented genetic algorithm combined with meta-learning, Q-learning, SARSA and DDPG.
 - Participated in PhysioNet 2019 sepsis early prediction competition(**time-series**), using RNN and XGBoost.

PROJECTS

- **The prediction for the adoption time of stray pets - Pytorch, OpenCV**
 - Used OpenCV to capture the face of stray pets and CNN to extract features. Implemented word2vec to extract the embedding from word description. Used XGBoost to process numerical features.
 - Finally used NN, logistic regression and SVM to make classification, got 70% accuracy .
- **Undergraduate Thesis: Flight Simulation and Scene Display — OpenGL,C++**
 - Established three-dimensional model of the aircraft - H-6 bomber using 3ds Max.
 - Designed and implemented the flight scene. Completed simulation process using C++ and OpenGL.
 - Improved the authenticity of flight simulation by OpenGL functions, realized data transmission by TCP/IP.