

CHEN QIAN

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🎓 EDUCATION

University of Virginia, Charlottesville, VA

Aug 2019 – Expected Dec 2020

Master of Engineering in Systems and Information Engineering

GPA: 3.60/4.00

China University of Geosciences, Wuhan, China

Sep 2015 – Jun 2019

Bachelor of Engineering in Remote Sensing Science and Technology

GPA: 3.54/4.00

👥 WORK EXPERIENCES

High-performance Spatial Computational Intelligence Lab

Dec 2018 – Jun 2019

Research Assistant

Wuhan, China

- Designed a Deep Learning model based on accurate mining of semantic information in high-resolution remote sensing images to reflect mixed spatial distribution of a city
- Utilized social media data of more than 500k random users within 3 months in 2.6k communities from a location-based service provider in China, then discretized user data to classify remote sensing images
- Deployed a deep bag-of-features network (BagNet) and achieved overall fitting accuracy of more than 85%

Zhejiang Skuo Digital Technology Co., Ltd.

Jul 2018 – Aug 2018

Data Analyst Intern

Jiaxing, China

- Collected smart lock market sales data and analyzed user evaluations
- Utilized the snownlp library for preliminary sentiment analysis and performed word segmentation and stopword filtering operations
- Employed the gensim library to build LDA topic classification models and provided smart lock development suggestions

Wuhan AntGIS Co., Ltd

Jan 2018 – Mar 2018

Software Engineer Intern

Wuhan, China

- Developed a new Android function to control unmanned aerial vehicle
- Designed and executed new feature to set flight route automatically and take photos when flying around a target, and enable users to view, select and upload photos
- Embedded above newly-developed functions into current National Land Resources Mobile Office System

📁 SELECTED PROJECTS

Music Recommendation System

Dec 2019 – Jan 2020

- Crawled original playlist data of Netease Cloud and performed data pre-processing to extract information
- Deployed collaborative filtering algorithm to build a song recommendation prediction model and migrated word2vec to develop a song sequence model

Credit Card Fraud Detection

Oct 2019 – Nov 2019

- Cleaned more than 50k financial loan data and filtered useless features, then altered weights of positive and negative samples to solve sample imbalance problem
- Established machine learning models to predict whether to issue loans, then selected different combinations of features and compared performances of different models

Retail Data Analysis on E-commerce Platform

Aug 2019 – Sep 2019

- Cleaned e-commerce transaction data, then established RFM models for user classification, and compared and analyzed the transaction volume and transaction amount indicators of different user groups in the time and regional dimensions
- Used Python for data visualization analysis, divided users into eight categories, and made targeted recommendations based on different categories

SKILLS & INTERESTS

- **Skills:** Python, SQL, R
- **Tools:** MySQL, Pandas, Numpy, AWS, Git, Tensorflow, Pytorch
- **Interests:** Soccer (Member of School Team), Dizi (Chinese Bamboo Flute)