Alvin Qicong Deng

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EXPERIENCE

Quantitative Criticism Lab, Research Associate - Austin, TX   Jan 2017 – Present

- Researching on prose and verse classifications of Latin literature using Python with Pandas, Numpy, Scikit-learn, LightGBM, XGBoost, Matplotlib, and Seaborn

Tenfold, Data Science Intern - Austin, TX   Mar 2017 – Jan 2018

- Developed sentence segmentation model using Python with Pandas, Matplotlib, NLTK, and Scikit-learn
- Built KPI visualizations across sales, marketing, and customer success using Python with Plotly
- Automated business analytics workflow using Salesforce Apex and Python with Pandas, Numpy, and Matplotlib

Drawbridge, Data Science Intern - San Mateo, CA   Jun 2017 – Aug 2017

- Researched and developed field-aware factorization machine to improve click-through rate prediction using Python and Scala with Numpy and Spark
- Analyzed desktop and mobile ad request fraud traffic and explored different machine learning models using Python with Numpy, Pandas, Scikit-learn, and LightGBM

Vast, Data Science Intern - Austin, TX   Jan 2017 – May 2017

- Implemented vehicle view counts and remaining days on lot predictions with gradient boosting trees and regression model using Python with Pandas, Matplotlib, Seaborn, XGBoost, and Scikit-learn
- Developed an ETL data pipeline to extract vehicle data from HDFS using Python with Spark
- Designed a full-stack web application to surface model predictions using Python with Flask

Twitch, Video Research Intern - San Francisco, CA   Sep 2016 – Dec 2016

- Researched on x264 architecture and its multi-threading model to provide video quality enhancement recommendations using C with GDB and Python with Numpy, Matplotlib, Seaborn, and Scikit-learn
- Lowered live stream latency by 13% and improved the quality of live stream by 23% and VOD by 3%

Apple, Data Science Engineering Intern - Austin, TX   May 2016 – Aug 2016

- Implemented grid search algorithm to improve model selection process using Python with Numpy
- Developed visualization library to display machine learning model metrics such as feature importance using Python with Pandas, Plotly, and Matplotlib
- Experimented data warehouse infrastructure optimization with probabilistic data structure like bloom filter using Java with Guava and Python with Plotly

Spredfast, Software Engineering Intern - Austin, TX   May 2015 – Aug 2015

- Redesigned and implemented account management web app using Ruby with Rails and JavaScript

Activision, UI Engineering Intern - Shanghai, China   May 2014 – Aug 2014

- Improved in-game UI & mini-maps of Call of Duty Online using C++ and GSC

EDUCATION

University of Texas at Austin, B.S. in Computer Science - GPA: 3.82 / 4.00   Aug 2014 – May 2017

COMMUNITY

Mobile App Development, Logistic Director   May 2015 – May 2017

- Organized events and conferences that teach students on mobile app development with partner companies and venture capital firms such as Google and Andreessen Horowitz

Freetail Hackers, Corporate Liaison   May 2015 – Dec 2016

- Fundraised $130,000 for HackTX 2016, the annual student hackathon at UT Austin, and managed partnerships with partner companies and venture capital firms such as Microsoft and 1517

SKILLS

Languages

- Proficient in Java and Python
- Familiar with Scala and SQL
- Exposure to C++, C, Ruby, and JavaScript

Tools / Libraries

- Git, Linux, Bash, HTML, CSS, jQuery, LaTeX, Jupyter Notebook, NumPy, SciPy, Pandas, Scikit-learn, LightGBM, XGBoost, Matplotlib, Seaborn, Bokeh, Plotly, Flask, Hadoop, Spark