Alvin Qicong Deng

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EDUCATION

University of Texas at Austin, B.S. in Computer Science - GPA: 3.8 / 4.0   Aug 2014 – May 2017

EXPERIENCE

Drawbridge, Algorithm Engineer   Jan 2018 – Present
- Experimenting with various deep learning models with a focus on user modeling and multi-task learning
- Building software & hardware infrastructures for machine learning in both applied research and production
- Publishing applied ML research in user modeling and social network analysis

Tenfold, Data Science Intern   Mar 2017 – Jan 2018
- Developed sentence segmentation model in Python with NLTK and Scikit-learn
- Built KPI dashboards across sales, marketing, and customer success in Python with Plotly

Drawbridge, Data Science Intern   Jun 2017 – Aug 2017
- Implemented field-aware factorization machine to improve CTR prediction in Python and Scala with Spark
- Analyzed desktop and mobile ad request fraud traffic in Python using Scikit-learn and LightGBM

Vast, Data Science Intern   Jan 2017 – May 2017
- Built page view count and remaining days-on-lot predictions using gradient boosting and regression in Python
- Developed an ETL data pipeline to extract vehicle features from HDFS in Python with Spark
- Designed a full-stack web application to surface model predictions in Python with Flask

Twitch, Applied Research Intern   Sep 2016 – Dec 2016
- Researched on x264 architecture and its multi-threading model to improve video quality in C
- Lowered stream latency by 13% and improved video quality of stream by 23% and VOD by 3%

Apple, Machine Learning Engineering Intern   May 2016 – Aug 2016
- Implemented grid search algorithm to improve model selection process in Python
- Developed visualization library to display machine learning model metrics in Python with Plotly
- Prototyped data warehouse infrastructure optimization with bloom filter in Java

Spredfast, Software Engineering Intern   May 2015 – Aug 2015
- Redesigned and implemented account management web app in Ruby with Rails
- Leveraged Word2vec to build a web app that identifies relationships between hashtags in Python

Activision, UI Engineering Intern   May 2014 – Aug 2014
- Improved in-game UI & mini-maps of Call of Duty Online in C++

COMMUNITY

Mobile App Development, Logistic Director   May 2015 – May 2017
- Organized events and conferences that teach students on mobile app development with companies and venture capital firms such as Apple, Amazon, and a16z

Freetail Hackers, Corporate Liaison   May 2015 – Dec 2016
- Pitched and fundraised $130,000 for HackTX 2016, the annual student hackathon at UT Austin, and managed relationships with companies and venture capital firms such as Microsoft, Google, KPCB, and a16z

SKILLS

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

Tools
- Linux, Bash, Git, LaTeX, Jupyter Notebook/Lab, Hadoop, Spark, AWS, FloydHub, Jinja

Libraries
- NumPy, SciPy, Pandas, Scikit-learn, Keras, TensorFlow, LightGBM, XGBoost, NLTK, Matplotlib, Seaborn, Plotly, Dash, Bokeh, Flask