Alvin Qicong Deng

EDUCATION

UNIVERSITY OF TEXAS

B.S. IN COMPUTER SCIENCE May 2017 GPA: 3.8

COURSEWORK

Algorithms and Complexity
Artificial Intelligence
Big Data Programming
Computer Architecture
Computer Security
Data Management
Data Mining
Data Structures
Declarative Programming
Discrete Mathematics
Linear Algebra
Operating Systems

LINKS

Email: alvin.q.deng@utexas.edu Personal: alvindeng.com GitHub: alvin319 LinkedIn: alvinqdeng

PROJECTS

PEPPER

Web app that enables students to register for hackathons and corporate representatives to browse resumes

MEDISYNC

Web app that allows doctors to quickly understand patients' information

SKILLS

LANGUAGES

Experience in
Java, Python
Familiar with
SQL, HTML, CSS
JavaScript, Bash, Git, LATEX
Exposure to
C++, C, Ruby, Gremlin

TOOLS & LIBRARIES

NumPy, SciPy, Pandas, Scikit-learn Xgboost, Matplotlib, Seaborn, Flask Plotly, jQuery, Bokeh, Jenkins Travis CI, Hadoop, Spark, Neo4j TitanDB, Cassandra

EXPERIENCE

TENFOLD DATA SCIENCE INTERN

Mar 2017 - Present, Austin, TX

• Working with data science team to build up speech recognition analytics

VAST DATA SCIENCE INTERN

Jan 2017 - May 2017, Austin, TX

- Worked with the data science team to provide inventory insights for car dealerships in Python
- Utilized gradient boosting tree model to predict vehicle view counts and regression model to predict remaining days on lot for vehicles
- Built out an ETL data pipeline to extract price data from Hadoop in Spark
- Implemented a full-stack web application to surface the dealers' inventory and model predictions with Flask

TWITCH VIDEO RESEARCH INTERN

September - December 2016, San Francisco, CA

- Worked with the video transcode team to improve users' experience on live stream and video-on-demand
- Researched on x264's architecture and multi-threading model to improve latency and video quality in C
- Decreased live stream latency by 13% and increased video quality of live and video-on-demand by 23% and 3% respectively

APPLE DATA SCIENCE ENGINEERING INTERN

May - August 2016, Austin, TX

• Implemented parameter optimization algorithm to improve machine learning model and built visualizations for metrics like feature importance in Python

UNIVERSITY OF TEXAS RESEARCH ASSISTANT

Jan - May 2016, Austin, TX

• Worked with Professor Philip Cannata to develop a TitanDB database adapter for CarnotKE, a language agnostic database management system, in Java

SPREDFAST SOFTWARE ENGINEERING INTERN

May - August 2015, Austin, TX

• Enhanced internal account management web app for the customer success team in Ruby with Rails and JavaScript

ACTIVISION UI ENGINEERING INTERN

June - August 2014, Shanghai City, China

• Improved the in-game UI & mini-maps of Call of Duty Online in C++

COMMUNITY INVOLVEMENT

MOBILE APP DEVELOPMENT LOGISTICS DIRECTOR

May 2015 - Present

• Organize events and conferences that teach students about mobile development with our partner companies throughout the school year

FREETAIL HACKERS CORPORATE ORGANIZER

May 2015 - December 2016

• Fund-raised \$130,000 for HackTX 2016, the annual hackathon at UT Austin, and 30% increase from 2015