

Alvin Qicong Deng

CONTACT	Email: alvin.q.deng@utexas.edu GitHub: github.com/alvin319 LinkedIn: linkedin.com/in/alvinqdeng
EXPERIENCE	<p>Drawbridge, Algorithm Engineer - San Mateo, CA Jan 2018 – Present</p> <ul style="list-style-type: none">▪ Experimenting various deep learning models for user identification▪ Building visualization platform to monitor model performance▪ Scaling data science infrastructure to apply machine learning research in production <p>Quantitative Criticism Lab, Research Associate - Austin, TX Jan 2017 – Present</p> <ul style="list-style-type: none">▪ Researching on prose and verse classifications of Latin literature with machine learning <p>Tenfold, Data Science Intern - Austin, TX Mar 2017 – Jan 2018</p> <ul style="list-style-type: none">▪ Developed sentence segmentation model in Python with NLTK and Scikit-learn▪ Built KPI dashboards across sales, marketing, and customer success in Python with Plotly <p>Drawbridge, Data Science Intern - San Mateo, CA Jun 2017 – Aug 2017</p> <ul style="list-style-type: none">▪ 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 <p>Vast, Data Science Intern - Austin, TX Jan 2017 – May 2017</p> <ul style="list-style-type: none">▪ 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 <p>Twitch, Video Research Intern - San Francisco, CA Sep 2016 – Dec 2016</p> <ul style="list-style-type: none">▪ 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% <p>Apple, Data Science Engineering Intern - Austin, TX May 2016 – Aug 2016</p> <ul style="list-style-type: none">▪ 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 <p>Spredfast, Software Engineering Intern - Austin, TX May 2015 – Aug 2015</p> <ul style="list-style-type: none">▪ 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 <p>Activision, UI Engineering Intern - Shanghai, China May 2014 – Aug 2014</p> <ul style="list-style-type: none">▪ Improved in-game UI & mini-maps of Call of Duty Online in C++
EDUCATION	University of Texas at Austin , B.S. in Computer Science - GPA: 3.82 / 4.00 Aug 2014 – May 2017
COMMUNITY	<p>Mobile App Development, Logistic Director May 2015 – May 2017</p> <ul style="list-style-type: none">▪ Organized events and conferences that teach students on mobile app development with partner companies and venture capital firms such as Google and Andreessen Horowitz <p>Freetail Hackers, Corporate Liaison May 2015 – Dec 2016</p> <ul style="list-style-type: none">▪ 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	<p>Languages</p> <ul style="list-style-type: none">▪ Proficient in Java and Python▪ Familiar with Scala and SQL▪ Exposure to C++, C, Ruby, and JavaScript <p>Tools / Libraries</p> <ul style="list-style-type: none">▪ Git, Linux, Bash, HTML, CSS, jQuery, L^AT_EX, Jupyter Notebook, NumPy, SciPy, Pandas, Scikit-learn, Keras, LightGBM, XGBoost, Matplotlib, Seaborn, Bokeh, Plotly, Flask, Hadoop, Spark