

# Alvin Qicong Deng

CONTACT	<b>Email:</b> alvin.q.deng@utexas.edu <b>GitHub:</b> github.com/alvin319	
EDUCATION	<b>University of Texas at Austin</b> , B.S. in Computer Science - GPA: 3.82 / 4.00	Aug 2014 – May 2017
EXPERIENCE	<b>Tenfold</b> , Data Science Intern - Austin, TX	Mar 2017 – Present
	<ul style="list-style-type: none"><li>▪ Developing sentence segmentation model using Python, Pandas, Matplotlib, NLTK, and Scikit-learn</li><li>▪ Automating business analytics using Salesforce Apex and Python with Pandas, Numpy, and Matplotlib</li></ul>	
	<b>Drawbridge</b> , Data Science Intern - San Mateo, CA	Jun 2017 – Aug 2017
	<ul style="list-style-type: none"><li>▪ Researched and developed field-aware factorization machine to improve click-through rate prediction using Python and Scala with Numpy and Spark</li><li>▪ Analyzed ad request fraud traffic and explored different machine learning models using Python with Numpy, Pandas, and LightGBM</li></ul>	
	<b>Vast</b> , Data Science Intern - Austin, TX	Jan 2017 – May 2017
	<ul style="list-style-type: none"><li>▪ Implemented vehicle view counts and remaining days on lot predictions with gradient boosting trees and regression model using Python, Pandas, Matplotlib, Seaborn, XGBoost, and Scikit-learn</li><li>▪ Developed an ETL data pipeline to extract vehicle data from HDFS using Python with Spark</li><li>▪ Designed a full-stack web application to surface model predictions using Python with Flask</li></ul>	
	<b>Twitich</b> , Video Research Intern - San Francisco, CA	Sep 2016 – Dec 2016
COMMUNITY	<ul style="list-style-type: none"><li>▪ 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</li><li>▪ Lowered live stream latency by 13% and improved the quality of live stream by 23% and VOD by 3%</li></ul>	
	<b>Apple</b> , Data Science Engineering Intern - Austin, TX	May 2016 – Aug 2016
	<ul style="list-style-type: none"><li>▪ Implemented grid search algorithm to improve model selection process using Python with Numpy</li><li>▪ Developed visualization library to display machine learning model metrics such as feature importance using Python with Pandas, Plotly, and Matplotlib</li><li>▪ Experimented data warehouse infrastructure optimization with probabilistic data structure like bloom filter using Java with Guava and Python with Plotly</li></ul>	
	<b>Spredfast</b> , Software Engineering Intern - Austin, TX	May 2015 – Aug 2015
	<ul style="list-style-type: none"><li>▪ Redesigned and implemented account management web app using Ruby with Rails and JavaScript</li></ul>	
	<b>Activision</b> , UI Engineering Intern - Shanghai, China	May 2014 – Aug 2014
	<ul style="list-style-type: none"><li>▪ Improved in-game UI &amp; mini-maps of Call of Duty Online using C++ and GSC</li></ul>	
SKILLS	<b>Mobile App Development</b> , Logistic Director	May 2015 – May 2017
	<ul style="list-style-type: none"><li>▪ Organized events and conferences that teach students on mobile app development with partner companies and venture capital firms such as Google and Andreessen Horowitz</li></ul>	
	<b>Freetail Hackers</b> , Corporate Liaison	May 2015 – Dec 2016
	<ul style="list-style-type: none"><li>▪ 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</li></ul>	
	<b>Languages</b> <ul style="list-style-type: none"><li>▪ Proficient in Java, Python</li><li>▪ Familiar with Scala and SQL</li><li>▪ Exposure to C++, C, Ruby, and JavaScript</li></ul>	
	<b>Tools / Libraries</b> <ul style="list-style-type: none"><li>▪ Git, Linux, Bash, HTML, CSS, jQuery, <math>\LaTeX</math>, Jupyter Notebook, NumPy, SciPy, Pandas, Scikit-learn, LightGBM, XGBoost, Matplotlib, Seaborn, Bokeh, Plotly, Flask, Hadoop, Spark</li></ul>	