

Alvin Qicong Deng

CONTACT	Email: alvin.q.deng@utexas.edu GitHub: github.com/alvin319 LinkedIn: linkedin.com/in/alvinqdeng	
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
	<ul style="list-style-type: none">▪ Experimenting with various deep learning models for user identification and recommendation▪ Building software & hardware infrastructure for machine learning in both research and applied▪ Publishing machine learning research in user modeling and recommendation systems	
	Deeplearning.ai , AI Bootcamp Attendee	Aug 2018 – Aug 2018
	<ul style="list-style-type: none">▪ Accepted into the bootcamp for machine learning engineers with a less than 3% admission rate▪ Led a group of 5 attendees on the design and implementation of a deep learning computer vision system	
	Tenfold , Data Science Intern	Mar 2017 – Jan 2018
	<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	
	Drawbridge , Data Science Intern	Jun 2017 – Aug 2017
	<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	
	Vast , Data Science Intern	Jan 2017 – May 2017
	<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	
COMMUNITY	Twitch , Video Research Intern	Sep 2016 – Dec 2016
	<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%	
	Apple , Data Science Engineering Intern	May 2016 – Aug 2016
	<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	
	Spredfast , Software Engineering Intern	May 2015 – Aug 2015
	<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	
	Activision , UI Engineering Intern	May 2014 – Aug 2014
	<ul style="list-style-type: none">▪ Improved in-game UI & mini-maps of Call of Duty Online in C++	
	Mobile App Development , Logistic Director	May 2015 – May 2017
	<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	
SKILLS	Freetail Hackers , Corporate Liaison	May 2015 – Dec 2016
	<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	
	Programming Languages <ul style="list-style-type: none">▪ Proficient in Java and Python▪ Familiar with Scala and SQL▪ Exposure to C++, C, Ruby, HTML, CSS, and JavaScript	
	Tools <ul style="list-style-type: none">▪ Linux, Bash, Git, L^AT_EX, Jupyter Notebook, AWS, FloydHub, Hadoop, Spark, Jinja	
	Libraries <ul style="list-style-type: none">▪ NumPy, SciPy, Pandas, Scikit-learn, Keras, TensorFlow, LightGBM, XGBoost, NLTK, Matplotlib, Seaborn, Plotly, Dash, Bokeh, Flask	