

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	LinkedIn , Software Engineer, Machine Learning	Jun 2019 – Present
	▪ Building ML products for LinkedIn Marketing Solutions	
	Drawbridge , Algorithm Engineer (Acquired by LinkedIn)	Jan 2018 – Jun 2019
	▪ Built the minimum viable product to improve ads re-targeting and attribution for Safari browsers	
	▪ Experimented with multi-task deep learning models for demographic and lookalike classifications	
	▪ Developed ML infrastructure tools in both applied research and production	
	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
COMMUNITY	▪ 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
SKILLS	▪ 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 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++	
	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	
SKILLS	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	
	Programming Languages	
	▪ Proficient in Python, Java	
	▪ Familiar with Scala, SQL, JavaScript	
	▪ Exposure to C++, C, Ruby, HTML, CSS	
	Tools	
	▪ Linux, Bash, Git, L ^A T _E X, 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	