

Alvin Qicong Deng

CONTACT	Email: alvin.q.deng@utexas.edu LinkedIn: linkedin.com/in/alvinqdeng GitHub: github.com/alvin319
EDUCATION	University of Texas at Austin , M.S. in Computer Science - GPA: 4.0 / 4.0 Aug 2019 – Present University of Texas at Austin , B.S. in Computer Science - GPA: 3.8 / 4.0 Aug 2014 – May 2017
EXPERIENCE	LinkedIn , Machine Learning Engineer Jun 2019 – Present <ul style="list-style-type: none">Designed a large-scale graph clustering algorithm on web cookies and devices to improve probabilistic identityMentored an intern in Summer 2019 researching on graph convolutional neural networks Drawbridge , Algorithm Engineer (Acquired by LinkedIn) Jan 2018 – Jun 2019 <ul style="list-style-type: none">Built the MVP to improve ads re-targeting and attribution for Safari browsers which projected \$10M ARRExperimented with multi-task deep learning models for demographic and lookalike classificationsDeveloped ML infrastructure tools in both applied research and productionLed the open-source initiatives on research paper implementation and collaborated with community contributors Tenfold , Data Science Intern Mar 2017 – Jan 2018 <ul style="list-style-type: none">Developed sentence segmentation model in Python with NLTK and Scikit-learnBuilt 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 SparkAnalyzed 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 with gradient boosting trees and linear regressionDeveloped an ETL data pipeline to extract vehicle features from HDFS in Python with SparkDesigned a full-stack web application to surface model predictions in Python with Flask Twitch , Applied 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 CLowered live stream latency by 13% and improved video quality by 23% and VOD by 3% Apple , Machine Learning Engineering Intern May 2016 – Aug 2016 <ul style="list-style-type: none">Implemented a grid search algorithm to improve the model selection process in PythonDeveloped visualization library to display machine learning model metrics in Python with PlotlyPrototyped data 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 RailsLeveraged 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++
COMMUNITY	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 companies and venture capital firms such as Apple, Amazon, and a16z Freetail Hackers , Corporate Liaison May 2015 – Dec 2016 <ul style="list-style-type: none">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
SKILL	Programming Languages <ul style="list-style-type: none">Proficient in Python, JavaFamiliar with Scala, SQL, JavaScriptExposure to C++, C, Ruby, HTML, CSS Tools <ul style="list-style-type: none">Linux, Bash, Git, L^AT_EX, Jupyter Notebook/Lab, Hadoop, Spark, AWS, TensorBoard, MLFlow, FloydHub, Jinja Libraries <ul style="list-style-type: none">NumPy, SciPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, NLTK, Matplotlib, Seaborn, Plotly, Dash, Bokeh, Flask