

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 University of Texas at Austin , B.S. in Computer Science - GPA: 3.8 / 4.0	Aug 2019 – Present Aug 2014 – May 2017
EXPERIENCE	Facet , Machine Learning Engineer ▪ Building image segmentation system for content-aware mask generation ▪ Experimenting with state-of-the-art style transfer with classical graphics techniques LinkedIn , Machine Learning Engineer ▪ Designed a large-scale graph clustering algorithm on web cookies and devices to improve probabilistic identity ▪ Improved ads auction fairness based on historical bidding data ▪ Mentored an intern in Summer 2019 researching on graph convolutional neural networks Drawbridge , Research Engineer (Acquired by LinkedIn) ▪ Built the MVP to improve ads re-targeting and attribution for Safari browsers which projected \$10M ARR ▪ Experimented with multi-task deep learning models for demographic and lookalike classifications ▪ Led the open-source initiatives on research implementation and collaborated with community contributors Tenfold , Data Science Intern ▪ 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 ▪ 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 ▪ Built page view count and remaining days-on-lot predictions with gradient boosting trees and linear regression ▪ 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 ▪ Researched on x264 architecture and its multi-threading model to improve video quality in C ▪ Lowered live stream latency by 13% and improved video quality by 23% and VOD by 3% Apple , Machine Learning Engineering Intern ▪ Implemented a grid search algorithm to improve the model selection process in Python ▪ Developed visualization library to display machine learning model metrics in Python with Plotly Spredfast , Software Engineering Intern ▪ 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 ▪ Improved in-game UI & mini-maps of Call of Duty Online in C++	May 2020 – Present Jun 2019 – May 2020 Jan 2018 – Jun 2019 Mar 2017 – Jan 2018 Jun 2017 – Aug 2017 Jan 2017 – May 2017 Sep 2016 – Dec 2016 May 2016 – Aug 2016 May 2015 – Aug 2015 May 2014 – Aug 2014
COMMUNITY	Freetail Hackers , Corporate Liaison ▪ 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	May 2015 – Dec 2016
SKILL	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, TensorBoard, MLFlow, FloydHub, Jinja Libraries ▪ NumPy, SciPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, NLTK, Matplotlib, Seaborn, Plotly, Dash, Bokeh, Flask	