Alvin Qicong Deng

CONTACT	Email: alvin.q.deng@utexas.edu LinkedIn: linkedin.com/in/alvinqdeng Gi	tHub: github.com/alvin319
EXPERIENCE	 Discord // Staff Machine Learning Engineer Acting as the technical lead to build 0-to-1 recommendation systems to boost user engagement Building customer support co/auto-pilots with LLM-based retrieval-augmented generations, yielding a 20% lift in customer satisfaction and projecting double-digit % savings from high 7-figure budgets Advising various ML/DS/Product teams to curate novel product experiences with ML 	
	 Senior Machine Learning Engineer Sep 2021 – Sep 2023 Architected multiple image and video classification/retrieval systems for visual safety (140M+ uploads per day), contributing to a 4x increase in detection volume with 90%+ precision in H1 2023 Launched the first server home feed and iterated from heuristics to modeling, leading to double-digit % CTR gains Gave numerous technical talks and workshops at department and company levels, familiarizing stakeholders with ML product flywheel and literature reviews across various domains (RecSys/Vision/NLP) 	
	 SixteenZero // Co-Founder Built the ML-based coaching platform for professional Counter-Strike teams 	Nov 2018 – Aug 2020
	 Drawbridge & LinkedIn // Research Engineer (Acquired by LinkedIn) Built the MVP to improve ads re-targeting and attribution for Safari browsers which projected 8-figure ARR Experimented with multi-task deep learning models for demographic and lookalike classifications Designed a large-scale graph clustering algorithm on web cookies and devices to improve probabilistic identity 	
	Tenfold // Data Science Intern Developed sentence segmentation model for customer support audio transcript 	Mar 2017 – Jan 2018 tions
	 Drawbridge // Data Science Intern Implemented field-aware factorization machine to improve CTR prediction 	Jun 2017 – Aug 2017
	 Vast // Data Science Intern Built page view count and remaining days-on-lot predictions with gradient body 	Jan 2017 – May 2017 osting trees and linear regression
	 Twitch // Applied Research Intern Researched multi-thread x264 architecture to improve video quality by 23% 	Sep 2016 – Dec 2016
	Apple // Machine Learning Engineering Intern	May 2016 – Aug 2016
	 Implemented a hyper-parameter search algorithm to improve iteration speed or 	
	Spredfast // Software Engineering InternLeveraged Word2vec to build a web app that identifies relationships between l	May 2015 – Aug 2015 nashtags on Twitter
		Activision // UI Engineering Intern Improved in-game UI & mini-maps of Call of Duty Online
EDUCATION	University of Texas at Austin , M.S. in Computer Science - GPA: 3.9 / 4.0 University of Texas at Austin , B.S. in Computer Science - GPA: 3.8 / 4.0	May 2022 May 2017
SKILL	 Programming Languages Proficient in Python, Java, SQL Familiar with Scala, JavaScript/TypeScript, Rust Exposure to C++, C, Ruby, HTML, CSS Tools & Platforms Linux, Bash, Git, LATEX, Jupyter, Hadoop, Spark, Beam, AWS, GCP, Azure, TensorBoard, Weights & Biases, HuggingFace Transformers, TensorFlow Serving, PyTorch Serving, Nvidia Triton Libraries NumPy, SciPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, NLTK, Matplotlib, Seaborn, Plotly, Dash, Bokeh, Flask, Django 	