ANDREW ANNESTRAND

aannestrand98@gmail.com • (832) 865-2002 • aannestrand.com

EDUCATION

The University of Washington	Master of Science, Electrical Engineering Overall GPA: 3.89/4.0	March 2023
The University of Texas at Austin	Bachelor of Science, Electrical Engineering Overall GPA: 3.74/4.0	May 2021
Universidad Católica de Valparaíso	Culture Program in Valparaiso, Chile	May 2018
Relevant Coursework	Machine Learning, Probability & Stochastic Processes, Statistics, Algorithms, Digital Image/Video Processing, Deep Learning, Edge ML/AI	

PROGRAMMING SKILLS

- **Proficient:** Python, SQL, PyTorch
- **Familiar:** C, C++, JavaScript, R, Java
- **Other Technologies:** Django, Flask, AWS, React, NumPy, Pandas, Scikit-learn

EXPERIENCE

Amazon – *Data Scientist Intern*; Seattle, WA — June – September 2022

- Developed predictive models (Recurrent Neural Networks) in support of Amazon PXT
- Integrated models with AWS services for modularized pipeline
- Wrote efficient SQL queries and Python scripts to handle millions of datapoints

Quuit, Inc. – *Co-founder* — September 2020 – Jan. 2022

- Co-founded a startup that builds devices that track e-cigarette usage via Bluetooth connection to smartphone
- Lead backend development for the application (Django/PostgreSQL), assist in frontend development (React Native)
- Contributed to product management through alpha testing and product iterations

ExxonMobil – *Machine Learning Engineer Intern;* Remote — May – August 2020

- Developed a custom Conditional Generative Adversarial Network (cGAN) for daily power demand on a variety of grids
- Enabled corporate research planning to create accurate power forecasts for a variety of customizable parameters

ACADEMIC/PERSONAL PROJECTS

NFL BetaLine: Positive EV Betting Framework using Deep Learning

- Compiled dataset of historical NFL game results, advanced team metrics, player production grades, and betting history
- Created and trained custom GRU network to predict probabilities of teams winning a game
- Model probabilities used to evaluate prime betting opportunities in noisy market

MobileNet-v1 Model Compression

- Optimized MobileNet-v1 for Raspberry pi edge device inference using iterative pruning and integer quantization
- Decreased latency by ~91%, power consumption by ~77%, while maintaining a ~71% accuracy on CIFAR-10 dataset

LEADERSHIP EXPERIENCE AND ACTIVITIES

UT Machine Learning and Data Science Club (MLDS) - *VP of Corporate Relations (Fall 2020)* — Fall 2018 – Spring 2021

- Led corporate outreach strategy and planning for large competitions, tech talks, and socials
- Contributed to weekly machine learning/data science workshops for club members
- Doubled corporate events since becoming an officer through strategic networking

Eagle Scout — June 2016 - Present

HONORS

- University Honors (5 semesters) — Spring 2017 - Spring 2018, Spring, Fall 2020