

EDUCATION

Texas A&M University - College Station, TX || 2015-2019

Overall GPA: 3.98/4.0

B.S. in Computer Engineering

Activities: Chess Club President, Physics Teaching Assistant, and Engineering Honors

WORK EXPERIENCE

Strategy and Analytics - Capital One - Dallas, TX

Sr. Business Analyst

Jul 2020- Present

- Owned a price optimization that shows a 13% lift in volume and NPV for Auto Refi
- Built a near-term delinquency model to predict Auto portfolio losses, lowering our allowance build by ~\$500M and bringing unit loss predictions to within 5% of actuals

Business Analyst

Aug 2019- Jul 2020

- Analyzed the credit risk of the Auto portfolio (\$60B+) during the COVID-19 recession. Our models, which were sensitive to unemployment rates, forecasted 4x avg. loss rates, however, government stimulus and industry-wide forbearance were at play. Collaborated across many teams to arrive at a judgmental forecast
- Automated monitoring of Auto auction markets, loss model backtesting, and quarterly forecasting processes

Analyst and Product Manager Intern (Twice)

Jun-Aug 2017, Jun-Aug 2018

- Developed a framework for identifying new pricing dimensions and identified \$48M/yr in NPV potential by adding geography as a pricing variable
- Analyzed asset valuation process for Auto Navigator and demonstrated \$480k/yr in cost savings

Software Engineering - Essentium - College Station, TX

R&D Engineering Intern (Concurrent with classes)

Aug 2017- May 2018

- Optimized the plasma heating pattern across a part by meshing the layers and estimating the heat exchange between surfaces. Given G-code from 3D-printer, would return an intensity level for the plasma disk for all movements across any layer

LEADERSHIP EXPERIENCE

Co-Founder - LoafByte LLC

Aug 2016- May 2017

- Mission: create a cost-effective iPhone 7 case with an audio jack which meets necessary industry requirements
- Led business strategy towards funding, branded the LLC, pivoted on roadblocks, and developed and tested hardware

PROJECTS

Flipside Crypto - DeFi Analytics, 2021

- Explored Uniswap V3 and Compound on-chain and built [dashboards](#) for protocol bounties

GroupMe Search Bot - Popular Chat App now Searchable, 2018

- Created a bot that was added to ~200 campus chats. It would scrape all past messages (simulating upward scroll), store them using MongoDB, index it with Elasticsearch, and reply to messages or DMs with search results.

SKILLS

Python, SQL, Excel, C++, Git, Unix, and Pandas