NIHAR ANNAM

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EDUCATION

University of Texas at Austin   *August 2020 – May 2024*
- Bachelor of Science, Computer Science
- Coursework: Data Structures, Algorithms, Computer Architecture, Operating Systems, Natural Language Processing, Network Security, Graphics, Symbolic Programming, Audio Processing

WORK

Pavilion - Software Engineer Intern, Backend   *May - August 2023*
- Created a tool to automatically extract offerings from government contracts to increase coverage from 7% to 44% and semantically index using **Pinecone**
- Helped develop an automatic tool to deduplicate over 20,000 companies using Locality Sensitive Hashing with MinHash to identify similar companies by name
- Implemented various endpoints, usecases, and admin tools in **Django** and **Postgres**

The Washington Post - Software Engineer Intern, Backend   *May 2022 - May 2023*
- Created and conceptualized **Keyword**, the Post's first original word game, now played by 65,000 daily unique users and 167,000 weekly unique users
- Built a new modularized recipe system to store, index, and develop recipes used by the Food column with **Flask** and **MongoDB,** replacing 10+ years of tech debt
- Integrated recipe system with **Algolia**, **Datadog**, and **Kafka** and implemented CI/CD with **Jenkins** and **EC2**

PROJECTS

Commodities/Weather Research   *January - March 2023*
- Developed weather predictions models by analyzing the pricing of temperature markets (HDD/CDD) on CME
- Used regional weather forecasting models to predict future price movement of correlated markets such as Corn, Soy, and Live/Feeder Cattle

Gaming Arbitrage Research   *February - April 2022*
- Built an automated tool to find arbitrage opportunities in esport betting markets through inconsistent odds across different markets
- Developed a strategy to find triangular (and polygonal) arbitrage in virtual video game item markets
- Backtested and implemented a market-making bot to act on the most liquid video game item markets

ORGANIZATIONS

Texas Undergraduate Computational Finance - Director
- Student-run organization focused on analyzing quantitative perspectives to evaluate potential investment opportunities in various market areas such as derivatives, fixed income, crypto & more
- Led 10+ pitches developing and backtesting potential quantitative investment strategies

Longhorn Gaming - Esports Director
- Managed multiple nationally successful collegiate gaming teams and organized monthly tournaments for popular video game titles for the student body

AWARDS

FTX Collegiate Trading Competition: 1st, 2nd, and 5th place across 3 teams trading BTC/ETH/SOL in live market-making competition on FTX exchanges

HackMIT 2020: Grand Prize Winner & DRW Data Visualization Challenge Winner

Teamfight Tactics: Top 1200/0.1% in North America in competitive data-driven strategy video game