NIHAR ANNAM

nihar.annam@gmail.com | niharannam.com | github.com/rahinroy

EDUCATION

University of Texas at Austin   August 2020 – May 2024
- Bachelor of Science, Computer Science
- Completed Coursework: Data Structures, Computer Architecture, Algorithms, 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**, improving the quantity and quality of search results
- 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

36 Hour Fitness   September 2020
- Created a web-based personal fitness trainer that gives real-time automated feedback on exercise form using Dynamic Time Warping to compare a user to instructors and score them
- Built for HackMIT 2020, **Grand Prize Winner** and **DRW Data Visualization Challenge Winner**

Total Music   August 2020 - Present
- Built an interactive web app (extension) for Twitch.tv to allow streamers to broadcast self-selected music to their audience.
- Developed using **Express.js**, hosted on **AWS Elastic Beanstalk/EC2** with **SQLite** for database management and **GraphQL** for Twitch API interaction.

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*
- Organized monthly tournaments for multiple games with 40+ person turnout and community gaming events with 1000+ person turnout alongside sponsors and panelists

AWARDS

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

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