

# NIHAR ANNAM

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## EDUCATION

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### **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

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### **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 modularized recipe system to store, index, and develop recipes used by the Food column with **Flask** and **MongoDB**
- Integrated recipe system with **Algolia**, **Datadog**, and **Kafka** and implemented CI/CD with **Jenkins** and **EC2** Instances

## PROJECTS

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### **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

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### **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

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