

ZAIN NAVED

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Work Eligibility: Eligible to work in the U.S. with no restrictions.

EDUCATION

The University of Texas at Dallas – Richardson, TX

December 2024

Degree: Bachelor of Science in Computer Science

Relevant Coursework - Data Structures and Algorithms, UNIX/Linux, Software Engineering, Linear Algebra, Discrete Math.

EXPERIENCE

LPL Financial

May 2023 - August 2023

Software Developer Intern

- Resolved 100+ security and code violations increasing the overall cohesion of the code using Angular JS and Node JS.
- Created a CI/CD Pipeline using TeamCity that reduced dependencies and coupling and deployed the pipeline using Octopus.
- Automated the process of running rollback testing for SQL scripts in the pipeline, increasing the efficiency by 33%.
- Performed API testing within a new developer environment and compared the results to the existing environments.
- Supported the migration of 30+ services to the cloud via AWS and worked towards hosting multiple apps within AWS cloud.
- Demonstrated the use of AGILE methodologies by communicating with my team during standup and utilizing Jira.

Atticus

June 2022 - September 2022

Software Developer Intern

- Spearheaded and implemented the design of the UI for the Client Portal application using Figma and React Native.
- Implemented Twilio APIs in the web Client Portal that allowed users to send and receive automated messages.
- Connected The UI in the mobile application to the existing database using MongoDB.

PROJECTS

CanCare – Code for Good Hackathon 2023

October 2023

Optimized Matching and UI - Fullstack Developer

- Organized CanCare's previous UI to improve the UX to fit the consumer base and increase simplicity using React JS.
- Optimized the previous matching algorithm for clients and volunteers to include 3 additional factors for a more personalized user experience using a prompt engineered GPT 4 from OpenAI.
- Utilized Flask to connect the matching results and the Firebase database.

VigilAI – AIS UTD

January 2023 – May 2023

Automatic Crime Detection using Computer Vision - Project Manager

- Managed a team to finetune the pretrained model, VideoMae, with AWS Sagemaker with 2 new larger datasets using transfer learning and domain adaptation to create 2 new models for classifying violent and non-violent crimes.
- Supported the creation of cloud architecture that utilized AWS Lambda and API gateways.
- Coordinated the creation of a UI to implement the trained models into an app to showcase the functionality of the model.

LangPortal – AIS UTD

August 2022 - December 2022

English to Spanish Translator using NLP - Model Developer

- Developed and published (for open source) an improved NLP model using transfer learning and domain adaptation using a new dataset on a pretrained model from HuggingFace, achieving a bleu score of 54.2.
- Designed the UI of the project using React JS, connected the model using an API gateway and deployed application onto AWS.

Project Share – IEEE UTD

August 2021 – December 2021

Website for ECS Students Seeking Homework Help — Frontend Developer

- Developed the frontend wireframe using Figma and backend design using UML.
- Implemented frontend using React JS and supported the creation of the backend using Firebase.

ADDITIONAL

- Tools:** Jupyter, Jira, Teamcity, Octopus, SonarQube, Figma, VIM, AWS, MuleSoft, Agile, PyTorch, TensorFlow, REST APIs
- Languages/Frameworks:** Java, C++, Python, React JS, React Native, MongoDB, SQL, C, HTML, CSS, JavaScript, Angular JS
- Interests:** Fantasy Football, Basketball, Fitness, Anime, History, Artificial Intelligence Ethics, Scuba Diving, Skiing, Hiking