Tri Ngo

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EDUCATION

The University of Texas at Dallas Aug 2020 – May 2024

Bachelor of Science in Computer Science; GPA: 3.95/4.

Relevant Courses: Advanced Data Structure & Algorithms, Operating System, Database System, C/C++ Programming in UNIX environment, Computer Architecture, Stats & Probability

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, HTML, CSS

Platform & Framework: MySQL, React Native, Spring Boot, Node, Docker, GitHub, Postman, Jupyter, OOP

EXPERIENCES

Software Engineer Intern **SVTech** Jun 2022 – Sep 2022

- Developed a RESTful API application using Java and Spring Boot, enabling seamless integration of facial recognition AI within the company
- Analyzed and integrated data from multiple 3rd party APIs using object-oriented programming, improving the accuracy of our facial recognition system by 20%
- Successfully deployed the application onto an Ubuntu server, allowing for seamless integration with existing software systems and boosting team performance by 30%
- Effectively utilized technologies such as Java, GitHub, VS Code, Spring Boot, Insomnia, Postman, and Maven to drive project success and contribute to the company's growth

PROJECTS

Weathered Cloud – *HackDFW* Sep 2022

- Collaborated with a team of 4 colleagues to build an innovative rain prediction application using Machine Learning with over 80% accuracy and AWS infrastructure, reducing latency to just 700ms
- Developed a heatmap layer on top of a base map layer that visually indicated areas with high chances of rain, increasing user engagement by 40% and improving navigation during inclement weather using JavaScript, React Native, and Google Maps's Directions API
- Innovated the design and development of an intuitive UI/UX for the app using Figma, resulting in an increase in user retention rate by over 25%

Behavior Predictor – *ASA Southern Methodist University DataFest* Apr 2022

- Competed and ranked 1st among 15 teams at DataFest by effectively analyzing large datasets and using visualization techniques to accurately predict potential negative behaviors with over 80% accuracy
- Utilized Python to conduct complex data analysis of Play2Prevent's user behavior, resulting in the development of predictive models with over 90% correlation accuracy
- Developed and implemented a unique matrix system that analyzed user habits from Play2Prevent's dataset, resulting in actionable insights that improved the overall effectiveness of their game-based prevention programs

OpenWeather API – *Computer Science II, University of Texas at Dallas* Dec 2021

- Developed a dynamic weather application by utilizing Java, Spring Boot, Pircbot, and object-oriented design, resulting in a user-friendly interface and efficient data management.
- Integrated OpenWeather API to retrieve accurate real-time weather information for user-specified locations
- Utilized Jackson ObjectMapper to parse complex response data from OpenWeather API, ensuring the accuracy and reliability of the displayed weather information for users

Information Retrieval System – *Computer Science II, University of Texas at Dallas* Nov 2021

- Designed and programmed an object-oriented information retrieval system that stored articles associated with specific keywords
- Implemented functionality for users to modify the Binary Search Tree and Hash Table by adding, deleting, and finding keywords in order to optimize the search process.
- Developed an information retrieval system using Java with a custom Binary Search Tree, HashTable, and Linked List data structure

ARCHIEVEMENTS

Intro to Cybersecurity: completed a 10-week course about Cybersecurity from CodePath May 2023

JPMorgan Software Engineering Program: used data visualization software to monitor stock price trends Apr 2023

ASA SMU DataFest: competed and ranked 1st place in a data competition Apr 2022