Chuong Tran

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EDUCATION

University of Houston Houston, TX
Bachelor of Science in Computer Science, Minor in Mathematics Expected December 2023

- GPA: 3.90/4.00
- Awards: Dean's Distinguished Scholars, 2nd in CodeRED Artemis 2021 General Track.
- Coursework: Data Structure and Algorithm, Data Science, Artificial Intelligence, Object-oriented Programming, Operating Systems, Software Design, Database Systems, Statistics.

SKILLS

Languages: C/C++, C#, Java, JavaScript, TypeScript, Python, SQL.
Web Development: React.js, Redux, Node.js, Express.js, ASP.NET, HTML/CSS, REST API.
Database: MongoDB, MySQL, MSSQL.
Tools: Git, GitHub, GitLab, Firebase, Postman, Azure.

WORK EXPERIENCE

Infodat Houston, TX
Software Developer Intern May 2023 – Present

- Developed an application utilizing React.js to streamline the assessment process for a user base of over 100 employees company wide.
- Implemented automated test scripts for continuous integration testing, leading to increase in efficiency and cutting manual testing time by 50%.
- Collaborated with cross-functional teams using Git and Azure DevOps, ensuring efficient tracking of work progress, and increasing efficiency throughout the development lifecycle.

Mainbridge Health Partners Remote
Software Engineer Intern December 2022 – April 2023

- Developed an application using ASP.NET MVC to effectively manage patient and doctor records and streamline hospital operations.
- Collaborated with team members to create a user-friendly interface with separate modules for different roles, enhancing communication and coordination between departments.
- Integrated multiple features including appointment booking, user authentication, data reporting, etc. to optimize hospital processes, and provide robust reporting and analytics capabilities.

University of Houston Houston, TX
Teaching Assistant | COSC-2436 Programming and Data Structures August 2022 – May 2023

- Created 20 in-class activities consisting of a 125-question bank, wrote and graded exams to assess student mastery in fundamental data structures and algorithms concept.
- Facilitated weekly lab sessions, with an average attendance of 70 students, to utilize code examples and strengthen course concepts comprehension.
- Guided over 50 students in office hours with core debugging strategies, code review, and homework written in C++, leading to 15% improvement across test scores.

PERSONAL PROJECTS

Fuel Quote Generator

- Developed a full-stack application to generate fuel quote based on client location, history, requested gallons, and company profit margin.
- Strengthened application security measures by implementing JWT authentication and employing multiple validation techniques, ensuring the integrity and confidentiality of data.
- Collaborated with a team of 4 members following agile methodologies, resulting in a 30% decrease in development time, enabling more efficient delivery of software.

Amusement Park Website

- Collaborated with a team of 5 to create a full-stack application using ASP.NET Core and MySQL to track business data and operations, deliver complex features and UI updates.
- Led the backend development by implementing a complete set of REST API endpoints to process client requests and integrating database system to the app.
- Deployed to Azure cloud, managed live application by setting alerts and analyzing real-time performance, and troubleshooted web, database, and API issues.

Data-Driven Cardiovascular Analysis and Insights

- Analyzed a comprehensive dataset of over 70,000 accounts, utilized machine learning techniques including logistic regression, decision tree to investigate factors contributing to cardiovascular heath outcome.
- Applied logistic regression to predict the presence of cardiovascular disease, leveraging interpretable results to understand the impact of variables such as age, height, weight, blood pressure, cholesterol, etc.