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: 3.9/4.0
- 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#, 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 optimize the assessment process for company-wide use, serving a user base of over 100 employees.
- Implemented automated test scripts for unit and integration testing, leading to improved efficiency and a 50% reduction in manual testing efforts.
- 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 a practical management system using ASP.NET MVC, allowing patients to manage their visits, and offering healthcare providers and administrative staff a toolset to ensure efficient healthcare delivery.
- Collaborated with team members to create a user-friendly interface with separate modules for different roles, enhancing effective coordination between departments.
- Integrated multiple features including appointment booking, user authentication, and data reporting to streamline hospital operations, and provide analytical 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 concepts.
- Facilitated weekly lab sessions, with an average attendance of 70 students, incorporating code examples to strengthen course topic comprehension.
- Guided over 40 students during office hours with core debugging strategies, code review, and homework, leading to 10% improvement in test scores.

PROJECTS

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

Amusement Park Website
- Collaborated with a team of 5 on creating a comprehensive platform using ASP.NET Core and MySQL, facilitating trip planning and ticket purchases, while providing company internal tools to enhance operational efficiency.
- Led the backend development by implementing a complete set of API endpoints to handle client requests, conducting business data analysis, and integrating database system into the application.
- Deployed to Azure, managed live application by setting alerts and analyzing real-time performance, and troubleshooted database and API issues.

Data-Driven Cardiovascular Analysis and Insights
- Analyzed a comprehensive dataset of over 70,000 accounts, utilizing machine learning techniques including logistic regression, and decision tree to investigate factors contributing to cardiovascular health 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, and cholesterol.