Chuong Tran

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Education

University of Houston — Dec 2023
Bachelor of Science in Computer Science, Minor in Mathematics - GPA: 3.9/4.0 — *Houston, TX*
- **Relevant Coursework:** Data Structures and Algorithms, Data Science, Artificial Intelligence, Object-oriented Programming, Operating Systems, Software Design, Database Systems, Statistics.

Experience

Infodat — May 2023 – Present
Software Developer Intern — *Houston, TX*
- **Technologies:** TypeScript, React.js, HTML, CSS, Jest
- Optimized the internal assessment process for over 100 employees by developing a web application using React.js.
- Achieved a 50% reduction in manual testing efforts by implementing unit and integration tests utilizing Jest.
- Boosted efficiency across the development lifecycle by collaborating with cross-functional teams via Git and Azure DevOps for effective work progress tracking.

University of Houston — August 2022 – May 2023
Teaching Assistant — COSC-2436 Programming and Data Structures — *Houston, TX*
- Created 20 in-class activities, including a 125-question bank, and wrote and graded exams for 200+ students.
- Conducted weekly lab sessions with an average attendance of 70 students, reinforcing course concepts through C++ code examples.
- Improved test scores by 10% for 40+ students through personalized assistance during office hours, including code reviews and assignment support.

Mainbridge Health Partners — December 2022 – April 2023
Software Engineer Intern — *Vietnam*
- **Technologies:** C#, ASP.NET MVC, Microsoft SQL Server, HTML, CSS
- Developed a management system for patients to oversee their appointments and offered healthcare providers and administrative staff essential tools for streamlined healthcare delivery.
- Enhanced interdepartmental coordination efficiency by 20% through modular UI component development for different roles.
- Integrated multiple core features, including appointment booking, user authentication, and data reporting, to optimize hospital operations and enable analytical capabilities.

Projects

Fuel Quote Generator | *JavaScript, React.js, Express.js, JWT, MySQL, HTML, CSS*
- Developed a full-stack application for generating fuel quotes using client location, purchase history, requested gallons, and company profit margin as inputs.
- Strengthened application security through the implementation of JWT authentication, ensuring data confidentiality.
- Accomplished a 30% reduction in development time by collaborating with a team of 4 members and following agile methodologies.

Amusement Park Website | *C#, ASP.NET Core, MySQL, HTML, CSS, Azure*
- Collaborated with a team of 5 to develop a web application facilitating trip planning, ticket purchases, and company system management tools.
- Led backend development, creating robust set of API endpoints, conducting data analysis, and integrating database systems into the application.
- Deployed and managed the live application on Azure while efficiently troubleshooting database and API issues.

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

Technical Skills

Languages: C++, C#, Java, JavaScript, TypeScript, Python, HTML, CSS, SQL.
Frameworks & Libraries: React.js, Redux, Express.js, Node.js, ASP.NET, REST API.
Developer Tools: Git, GitHub, GitLab, Postman, Azure, MongoDB.

Awards

Dean's Distinguished Scholars — Spring 2023
2nd in CodeRED Artemis 2021 Hackthon General Track. — October 2021