

# 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, 2<sup>nd</sup> 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

- Implemented an intuitive and interactive UI utilizing React.js to streamline the assessment process for a user base of over 100 employees company wide.
- Developed 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 a management 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

- Developed 20 in-class activities consisting of a 125-question bank, wrote and graded exams to assess student mastery in fundamental data structures and algorithms.
- Facilitated weekly lab sessions, with an average attendance of 107 students, to utilize real-time code examples and bolster course concepts comprehension.
- Upskilled 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 user information.
- 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 developing of the web server by implementing a complete set of REST API endpoints to process web client requests and integrated a 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 logistic regression, 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, cholesterol, etc.