

# 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.

### 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.

### 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.

## 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**

**2nd in CodeRED Artemis 2021 Hackthon General Track.**

Spring 2023

October 2021