

# Chuong Tran

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## Education

### University of Houston

*Bachelor of Science in Computer Science, Minor in Mathematics, summa cum laude*

Dec 2023

Houston, TX

- **Relevant Coursework:** Data Structures and Algorithms, Data Science, Artificial Intelligence, Object-oriented Programming, Operating Systems, Software Design, Database Systems, Statistics.

## Experience

### Infodat

*Software Developer*

Houston, TX

January 2024 – Present

- **Technologies:** TypeScript, Angular, HTML, CSS
- Enhanced code maintainability and facilitated efficient unit testing by implementing modularized Angular components.
- Achieved an 80% test coverage, ensuring the reliability and stability of the application.

*Software Developer Intern*

May 2023 – December 2023

- **Technologies:** TypeScript, React, HTML, CSS, Jest
- Developed and maintained a web application to streamline internal assessment process, ensuring code quality and architecture.
- Achieved a 50% reduction in manual testing by implementing unit and integration tests utilizing Jest.
- Drove cross-functional collaboration using Git and Azure DevOps, enhancing team efficiency and project management.

### University of Houston

*Teaching Assistant – COSC-2436 Programming and Data Structures*

Houston, TX

August 2022 – May 2023

- Designed and executed a comprehensive curriculum including hands-on programming activities and assessments.
- Facilitated lab sessions emphasizing practical application of data structures and algorithms in C++.

### Mainbridge Health Partners

*Software Engineer Intern*

Vietnam

December 2022 – April 2023

- **Technologies:** C#, ASP.NET MVC, Microsoft SQL Server, HTML, CSS
- Optimized patient and staff workflows and enhanced interdepartmental coordination efficiency by developing modular UI components.
- Developed new features and expanded functionality on existing web application, involving both front-end and back-end tasks which resulted in better user experience.

## Projects

### Brain Tumors Classification | Python, TensorFlow, NumPy

- Achieved a 91% accuracy in categorizing brain tumors by developing and training a machine learning model leveraging ResNet 50 architecture on a dataset of 3,000+ MRI images.

### Amusement Park Website | C#, ASP.NET Core, MySQL, React, HTML, CSS, Azure

- Collaborated with a team of 5 to develop and deploy a web application for amusement park management.
- Led back-end development and database design, ensuring high-quality code, and efficient data analysis, followed by deploying the application using Azure Web Services.

### Data-Driven Cardiovascular Analysis and Insights | R

- Conducted extensive data analysis on a large healthcare dataset, utilizing machine learning techniques such as Logistic Regression, Decision Tree to provide insights into cardiovascular health outcomes.

### Yelp Review Scraper | Python, Selenium

- Developed a scraping tool to extract user reviews and ratings from Yelp, implementing error handling and data validation to ensure reliable data retrieval.

## Technical Skills

**Languages:** C++, C#, Java, JavaScript, TypeScript, Python, HTML, CSS, SQL.

**Frameworks & Libraries:** Spring Boot, Angular, React, Redux, Express.js, Node.js, ASP.NET, REST API.

**Developer Tools:** Git/GitHub, Postman, Azure, MongoDB.

## Awards

**Dean's Distinguished Scholars**

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

Spring 2023

October 2021