Chuong Tran

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Education

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

Experience

Infodat — Houston, TX
Software Developer — *January 2024 – Present*
- **Technologies:** TypeScript, Angular, HTML, CSS
- Developed dynamic and responsive user interfaces, effectively translating design wireframes into functional web components.
- Enhanced code maintainability, reusability, and facilitated efficient unit testing through implementation of 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
- Enhanced the efficiency of internal assessment process by 20% through the development of specialized web application.
- 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 — Houston, TX
Teaching Assistant — COSC-2436 Programming and Data Structures — *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 — Vietnam
Software Engineer Intern — *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

Internship Recommender | *Python, NLTK, Selenium, BeautifulSoup*
- Applied Natural Language Processing techniques, including TF-IDF and Cosine Similarity, to build recommendation system that matches opportunities with user resumes.
- Built scraping tool to extract internship information, implementing error handling and data validation to ensure reliable data retrieval.

Brain Tumors Classification | *Python, TensorFlow, NumPy*
- Achieved 91% accuracy in categorizing brain tumors by developing and training machine learning model leveraging ResNet 50 architecture on dataset of 3,000+ MRI images.

Amusement Park Website | *C#, ASP.NET Core, MySQL, React, HTML, CSS, Azure*
- Collaborated with team of 5 to develop and deploy web application for amusement park management.
- Led database design, SQL queries and RESTful API endpoints development, ensuring high-quality code, and efficient data analysis, followed by deploying the application using Azure Web Services.

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 — Spring 2023
2nd in CodeRED Artemis 2021 Hackathon General Track. — October 2021