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, Java, Angular, Spring Boot
- Developed dynamic and responsive user interfaces, effectively translating 20+ designs into functional web components.
- Enhanced code maintainability, reusability, and facilitated efficient unit testing through implementation of modularized Angular components.
- Designed and implemented RESTful APIs, employing JDBC templates, custom queries, and JPA to optimize data interaction.
- Utilized microservices architecture by incorporating Eureka Server and API Gateway, enhancing the application's scalability and fault tolerance.
- Achieved an 80% code coverage, ensuring the reliability and stability of the application.

Software Developer Intern   *May 2023 – December 2023*
- **Technologies:** TypeScript, React, 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 20+ hands-on programming activities and assessments.
- Facilitated 15+ lab sessions with average attendance of 50+ students, 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
- Optimized patient and staff workflows and enhanced interdepartmental coordination efficiency by developing modular UI components.
- Developed 5+ 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, 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.