Justine Tran

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EDUCATION

University of Houston — Houston, TX
Bachelor of Science in Computer Science, Concentration in Software Design, Dean's List — *December 2023*
Real-Time Systems Laboratory, Department of Computer Science

Relevant Courses: Software Design, Object-Oriented Programming, Algorithms & Data Structures, Operating Systems, Computer Architecture, Real-Time Processing and Embedded Programming, Database Systems, Computer Networks.

EXPERIENCE

Full Stack Developer Intern — May 2024 – Jan. 2025
Christian Brothers Automotive | JavaScript, React, Node.js, Python, Flask, MySQL, Azure DevOps — *Houston, TX*
- Reduced payroll processing time by 30% by designing and implementing a Payroll Import feature, optimizing SQL queries, and leveraging React-Redux with RESTful APIs for seamless CI/CD integration.
- Increased operational efficiency by 20% by designing a QuickBooks Update Report to manage RO# workflows (approval, rejection, deletion) using React, Python, and SQL.
- Automated 90% of manual newsletter tasks by developing a Python web scraper to collect and curate franchising news, ensuring consistent content updates.
- Enhanced secure communication by 25% by improving DBG Service through email verification banners and enhanced data security measures, leading to increased user engagement and system integrity.
- Improved customer transparency and satisfaction by developing a vehicle tracking system, enabling real-time service progress updates, using Mantine React for a seamless UI/UX experience.

Web Developer — Dec. 2023 – May 2023
Killeen Vietnamese Community | JavaScript, React, AWS Service — *Remote*
- Enabled non-technical admins to manage content independently Developed a custom CMS for a dynamic, scalable website, allowing easy updates of photos, text, events, audio, and PDFs

PROJECTS

Cold Call Bot | *JavaScript, React, Node.js, Express.js, MongoDB* — Feb. 2025 – Present
- Designed and developed an AI-powered Cold Call Bot capable of conducting, analyzing, and learning from cold calls.
- Implemented Natural Language Processing (NLP) and Named Entity Recognition (NER) to extract key insights from conversations.
- Integrated Sentiment Analysis to assess customer reactions and adjust responses accordingly.

Project Management System | *JavaScript, ASP.NET C#, CSS, SQL* — Jan. 2023 – May 2023
- Designed & developed a web-based project management application enabling users to manage projects, assign tasks, allocate team members, and track project progress.

Fuel Rate Prediction Software Application | *JavaScript, React, Firebase* — Jan. 2023 – May 2023
- Utilized location data, user history, fuel usage, and company profit margin as key factors for predicting fuel rates.
- Implemented both user and client side interfaces to deliver a seamless digital experience, enhancing user satisfaction and improved client engagement.

Fitstagram | *Java, Android Studio, Firebase, XML, Figma* — Jan. 2022 – May 2022
- Developed Android app akin to Instagram, enabling users to post, comment, & vote on content for decision making.

RESEARCH

Evaluation of Hybrid Branch Prediction for WCET Analysis | *SimpleScalar* — Jan. 2023 – May 2023
- Enhanced branch prediction accuracy by evaluating dynamic and hybrid global prediction models, achieving up to 32.4% WCET reduction (7.67% on average) using bubble sort as a benchmark.

Optimizing WCET: ML for better branch prediction | *GEM5, Python* — June 2023 – Dec. 2023
- Implemented a decision tree-based ML model in GEM5 and Python to refine branch prediction, reducing mispredictions and improving execution time by 0.02s, though with a minor WCET tradeoff.

TECHNICAL SKILLS

Programming & Development: C, C++, C#, Java, Python, JavaScript, HTML, CSS, Flask, Node.js, Express.js, React, Redux, Mantine, Git/GitHub, Android Studio, Visual Studio, WebStorm, PyCharm, DataGrip, Figma
Databases & Cloud: SQL (MS, MySQL, NoSQL), MongoDB, SQL Server, Microsoft Azure, AWS Services, Firebase (Auth, Firestore), Linux
Machine Learning & AI: Natural Language Processing (NLP), Named Entity Recognition (NER), Sentiment Analysis
APIs & Networking: RESTful APIs, WebSockets, HTTP

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals — Issued January 2025