Jason Chau

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Education

The University of Texas at Dallas - Richardson, Texas   August 2020 - May 2024
Bachelor of Science in Software Engineering

Work Experience

Software Engineer Intern | Xort Logix   *May 2025 - Present*
- Collaborated with a 4-person development team to build an AI-powered chatbot featuring voice and text interaction capabilities using React and FastAPI
- Developed responsive frontend UI and chat interface components in React, prioritizing optimal user experience and accessibility
- Integrated OpenAI's Whisper API for real-time audio transcription, enabling seamless voice-to-text functionality
- Implemented secure user authentication and session management using Firebase Authentication

Crew Lead | Beth Marie's Old Fashioned Ice Cream   *May 2022 - Present*
- Lead daily operations and coordinate teams of 2+ employees to consistently deliver exceptional customer service
- Train and mentor new hires on operational procedures, improving team efficiency and maintaining high service standards
- Managed cash transactions and inventory ensuring operational continuity
- Develop leadership and problem-solving skills in a fast-paced, customer-focused environment

Projects

PokeTracker | *SvelteKit, TypeScript, Firebase, PokeAPI, Vercel*
- Developed and deployed a full-stack web application enabling Pokémon enthusiasts to securely track collections and shiny hunts
- Implemented Firebase authentication system with comprehensive user management (sign-up, login, password recovery)
- Utilized Svelte reactive stores for efficient state management and data persistence, optimizing database performance
- Integrated PokeAPI to display real-time Pokémon information including names, IDs, and sprites

Pokemon Shiny Hunting Bot | *Python, C++, Arduino*
- Engineered an automated shiny Pokémon detection system for Nintendo DS using Arduino Nano and C++
- Implemented two different detection methods:
    - **Image Recognition:** Developed computer vision solution using OpenCV and NumPy to capture and analyze screenshots for shiny detection
    - **Light Sensor Detection:** Utilized photoresistor to identify extended light patterns indicating shiny appearances
- Programmed servo motors for automated button control, enabling continuous gameplay without manual intervention

Automated Quiz Taker | *Python, Bash*
- Built an automation script for online trivia completion using web scraping and answer bank matching
- Implemented Selenium-based web automation for dynamic quiz interface interaction and answer selection
- Integrated OpenAI's Whisper API for audio CAPTCHA transcription and automated solving
- Deployed on Raspberry Pi with scheduled Bash automation for daily execution

Aggregate Shopping Cart | *HTML, CSS, JS, PostgreSQL, React*
- Collaborated on team project to develop project management and shopping cart application for home renovation planning
- Designed user authentication interfaces using Chakra UI components with advanced form controls, modals, and React hooks
- Documented complete Software Development Life Cycle (SDLC) including project management, requirements analysis, architecture design, and testing procedures

Technical Skills

- **Languages:** Python, Java, JavaScript, TypeScript, C, C++, Rust, HTML, CSS
- **Frameworks & Libraries:** SvelteKit, React, Selenium, OpenCV, NumPy
- **Tools & Technologies:** Git, GitHub, Arduino, Bash, Firebase, Vercel
- **Databases:** SQL, PostgreSQL, Firebase Firestore