Yuqiang(Tom) Tan

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Authorized to work for any employer with no restrictions

Education

Bellevue College, Bachelor of Applied Science, Major in Software Development   Winter 2023 – Spring 2025
- GPA: 3.62/4.0
- **Coursework:** Data Structure & Algorithms, Advanced Web Development, Developing Mobile Apps, Application Architecture, Software Testing, Enterprise Data Apps

Seattle Central College, Associate in Applied Science-T, Major in Web Development   Fall 2019 – Fall 2021
- GPA: 3.64/4.0
- **Coursework:** Web Authoring, Database Development, Web App Programming, Project Management, Web Programming W/ Python, Javascript

Projects

Vitural Service Animal (in collaboration with MXT reality)   Jane 2025 – July 2025
- Created an immersive VR interaction game for Meta Quest 3, allowing users to engage with a virtual service animal through hand gestures, voice commands, and AI-driven responses.
- Built a responsive Pet Behavior system that reacts to both physical gestures and spoken commands using Unity and C#.
- Implemented speech to text processing with Whisper and Wit.ai, followed by intent analysis using Unity Sentis and Jets for nautal command recognition.
- Used ChatGPT(LLM) via external API to enable fallback conversations when user input wasn't a direct command, enhancing realism and companionship.
- Converted AI-generated responses into natural speech using a text-to-speech engine, allowing the virtual pet to "talk" to the user.
- Developed and deployed the full experience using Unity XR, Meta XR SDK, and Pssthrough API, optimized for immersive virtual reality environments.

Hospital Management System   github.com/yuqiangtan13
- Designed and developed a desktop-based Hospital Management System using C#, Windows Forms, and the .NET Framework.
- Implemented essential modules such as patient registration, appointment scheduling, inventory management, and user authentication.
- Followed object-oriented principles and best practices for UI design and logic separation.
- Tools Used: C#, .NET Framework, Windows Forms, Git

Soccer+ - Real-Time Soccer Match Web App   soccer-plus-app.vercel.app
- Developed a web application that delivers real-time soccer match data, trilored to user preferences based on geolocation and favorite teams.
- Integrated external APIs including Football-Data.org for live match details and ipify.org for IP-based localization.
- Enabled features like kickoff reminders, match personalization, player stats tracking, and post-match summaries.
- Tools Used: JavaScript, HTML/CSS, REST APIs, Git, Cloud Database

Technologies

Languages: C#, SQL, JavaScript, JSON, HTML, CSS

Technologies: .NET, Microsoft SQL Server, Unity, Unity XR, Meta XR SDK, Windows Forms, Git, REST APIs