Yu-Shiang Tseng

tsengyushiang@gmail.com | 0983 030 748 | github.com/tsengyushiang

Experience

Senior Frontend Engineer, Delta Electronics, Inc.   Jul. 2024 – Present
- Developed an enterprise WLAN management system from scratch and launched it to production.
- Led frontend development with Next.js and TypeScript, collaborating on backend API integration.
- Utilized Material UI as a base and developed our own brand-aligned components.
- Built visualizations to represent network structure, usage data, client locations, and signal strength.
- Used MSW for API mocking while maintaining UI documentation and unit tests in Storybook.

Frontend Engineer, Kdan Mobile Software Ltd.   Oct. 2022 – Jun. 2024
- Experienced in e-signature SaaS development in Scrum with backend and UI/UX teams.
- Provide the marketing team with a CMS for real-time content updates.
- Leveraged Next.js SSR to enhance SEO and monitored Core Web Vitals to improve user experience.
- Utilized Sentry and Datadog to retrieve logs, resolve issues, and enhance the SaaS product.
- Built an SDK for third-party application integration with our product, verified on Microsoft Teams.
- Developed and maintained customized on-premise versions using Git forks and Docker to build production environments, with SonarQube for code quality scanning.

Software Engineer Intern, iStaging Corp.   Sep. 2019 – Jan. 2020
- Built an interactive 3D room tour and virtual exhibitor platform using Three.js and React.
- Implemented camera transition animations and panorama texture projection using GLSL.
- Integrated HTML into a 3D environment with CSS 3D, managing occlusion for proper UI visibility.

Education

National Taiwan University of Science and Technology   Sep. 2016 – Jul. 2022
- Bachelor of Science and Master of Science in Computer Science.
- Master's Thesis: Neural Radiance Fields using Depth Oracle Network for Dynamic Character.

Projects

3D Coverage Visualizer
- Develop real-time wireless signal visualization using React for UI and Three.js for GPU-accelerated 3D rendering.
- Package the project as a reusable library with documentation via JSDoc and usage examples in Storybook.

Triangle localization Simulator
- Built a person tracking data simulator that sends data to Prometheus and visualizes it with Grafana.

Resizable and draggable group by hierarchical transformations.
- Extended the existing React DnD library to support dragging and resizing groups of elements.

Panorama Scene Editor.
- Developed a web tool that generates layouts from uploaded panoramas using neural networks.
- Built Docker images via GitHub CI and deployed React frontend and Python backend using Docker Compose.

Technical Skills

Languages: JavaScript, TypeScript, CSS, HTML, GLSL, C++, Python

Frameworks/Libraries: Next.js, React, Redux, Jest, i18n, Styled-components, Storybook, MSW, Three.js

Tools: Git, CI/CD, Docker, Docker Compose, SonarQube, Nginx, Prometheus, Grafana