

Yu-Chung Lee

Taiwan

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Experience

MOXA Inc.

New Taipei City, Taiwan

IT APPLICATION ENGINEER

Jun 2024 - Now

- Develop the frontend of the latest generation of "Partner Zone" - a all-in-one solution for sales, order, performance, etc... platform for MOXA's partner and distributors.
- Standardizing IT department's frontend development and designing by authoring a guide that covers not only the technical side but also the design implementation suggestions and example projects.
- Maintain Figma UI library based on MOXA's Global Marketing Team's guideline.
- Assist the UI/UX design of "CME 2.0", enhancing the experience of both desktop and mobile users for a better, more friendly, intuition-based, and clean style by communicating with business analysts and users.

Athena Information Systems

Taipei City, Taiwan

SENIOR SOFTWARE ENGINEER

Oct 2023 - Mar 2024

- Maintenance internal UI library based on SyncFusion using TypeScript.
- Leading the transition of products from Vue 2, including frameworks like Nuxt 2 and Vuex, to Vue 3 with Nuxt 3 and Pinia.
- Worked closely with UI/UX designers to redesign an all new ERP portal page, providing fully-customizable, friendly, modern UI and UX.

PhaseTech & Advanced Computation Laboratory

New Taipei City, Taiwan

CHIEF TECHNOLOGY OFFICER, SOFTWARE ENGINEER

Jan 2019 - Jul 2023

- Led and developed MarineCom(patent pending), a budget satellite communication solution costs 25 of the current market average.
- Reduced application development time by developing a GIS framework enhanced and expended CesiumJS for internal usage.
- Conducted assessment of drone's geographical usage, resulting in over 50% cost savings while ensuring data privacy.
- Designed and developed DeepSea9v4, with the redesigned system architecture, the realtime global vessel monitoring system is 90% faster and the memory usage is 75% less than the previous generation.
- Enhanced catch reporting flow in the fixed-net fishing industry by 70% through an improved UI/UX design and optimized data structure and algorithms.

Projects

COVID-19 CIC

<https://covid-cic.xtl.tw>

DEVELOPER

2021 - Present

- Collecting historical global COVID-19 data with hourly time resolution.
- Implementing geographic visualization, historical data charts, and real-time case information overview dashboard.
- Tech stack: JavaScript(Vue), Chart.js, CSS3, Python(Flask), MongoDB

Tetrapod

PROJECT MANAGER, DEVELOPER

2020

- Led team of 6 developers to deliver and test 12+ features in 3 months, meeting all project milestones on schedule.
- Led the UI/UX and system architecture design.
- Utilized SocketIO for realtime auction, instant messaging, and web-notification.
- Tech stack: JavaScript(Vue), CSS3, SocketIO, Python(Flask), JWT, MongoDB, GCP.

Port Sentry

<https://northrend.deepsea9.taipei/port-sentry>

FRONTEND DEVELOPER, DEV OPS

2020

- Visualized port pollution estimation in charts and 3D map along with realtime ship location.
- Deployed on self-hosted server, utilized Nginx for reverse proxy and web server, and supervisor for service management to ensure the availability.
- Tech stack: JavaScript, CesiumJS, CSS3, Python(Flask), Nginx, Ubuntu.

Skills

Frontend

Vue, Nuxt, Electron, CSS3, Ionic Framework, Laravel, SwiftUI, Webpack, jQuery, Bootstrap

Designing

Figma, Adobe XD, Photoshop

Data Visualization

CesiumJS, MapBoxJS, Chart.js, D3.js, three.js

Backend

Flask, MongoDB

DevOps

Git, GitlabCI, Nginx, Docker, GCP

Embedded System

Arduino, Raspberry Pi

Programming Languages

JavaScript, Python, Swift, TypeScript, PHP, C++, Kotlin