

Yu-Chung Lee

Taiwan

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Experience

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.
- Leading team of 4 including System Analyst, Industry Consultant, System Designer at a new major product's early stage design and feature assessment.

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.
- Led team of 5 developers designed "E-Lab" prototype, an online project workspace focused on user privacy, delivering all features within one month.
- 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.
- Developed and implemented technical strategy and roadmap, and overseen the development of software applications and infrastructure

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.

theBarMap 酒吧。走吧

PROJECT MANAGER, DEVELOPER

2019

- Developed a website for people who enjoy imbibing, which provides a bar search, ratings, and a wiki featuring info on various liquors.
- Collaborated with community contributors, our database contains more than 1,600 bars around Taiwan.
- Tech stack: PHP, JavaScript, CSS3, Three.js, Google Maps Platform, GCP.

Skills

Frontend

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

Designing

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