# **Experience**

MOXA Inc.

New Taipei City, Taiwar

IT APPLICATION ENGINEER

Jun 2024 - Now

• Standardized frontend development across the IT department by authoring a comprehensive guide covering both technical patterns and UI/ UX implementation strategies.

- Created and maintained an internal Vuetify-based component library, designed to enforce consistency and accelerate frontend development, now used across teams.
- · Led the frontend development of an internal BPM system for a neighboring team, improving cross-team code quality and maintainability.
- · Developed the frontend of the latest generation of "Partner Zone" feature-rich platform used by global distributors and partners.
- Improved UX across platforms and led creation of a Figma UI system aligned with MOXA branding, enabling smoother collaboration between analysts, designers and engineers.

#### Athena Information Systems

Taipei City, Taiwa

SENIOR SOFTWARE ENGINEER

Oct 2023 - Mar 2024

- Led the migration from Vue 2 to Vue 3, replacing Vuex with Pinia and modernizing legacy codebases.
- Maintained a TypeScript-based UI library using SyncFusion components.
- Redesigned ERP portal UI for flexibility and clarity, working closely with UX designers.

### PhaseTech & Advanced Computation Laboratory

New Tainei City Taiwar

Jan 2019 - Jul 2023

TECHNICAL LEAD / FOUNDING ENGINEER

- Led and developed MarineCom (Patented TW202437745A), enabling affordable satellite communication for marine usage.
- Rebuilt the architecture for DeepSea9v4, reducing memory use by 75% and boosting render speed by 90% faster than the previous generation.
- Improved catch-reporting UX in fixed-net fishing by 70% through streamlined UI/UX design and data structure improvements.
- Assessed drone deployment for geo-survey, reducing ops cost by 50% while ensuring data privacy.

## Projects\_\_\_\_\_

### **Customized Aerial Screen Saver**

https://github.com/FalconLee1011/Customized-Aerial-Screen-Save.

MAINTAINER

2023 - Now

- Developed a Swift/SwiftUI macOS app enabling users to customize Apple's Aerial screensaver by injecting videos and modifying protected system asset configurations.
- Reached 215+ GitHub stars, 7 forks, and still growing (latest release: v1.2.0, Jun 2025).
- Featured in the MacRumors community: link
- Tech stack: Swift, macOS frameworks, filesystem APIs, JSON, GitHub versioning.

COVID-19 CIC https://covid-cic.xtl.tw

MAINTAINER

2021 - 2024

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

#### MarineCom (Patented TW202437745A)

LEAD DEVELOPER 2021 –2023

- Designed a low-cost satellite communication platform for offshore vessels with real-time chat and SOS features.
- Built cross-platform mobile apps using Vue, TypeScript, and Ionic to support satellite chat and emergency alerts.
- Integrated Garmin SDK, hardware, Androidx86, and Arduino to create a WiFi access point for mobile devices, enabling stable bidirectional satellite messaging.

### Skills\_\_\_\_

Frontend Vue, Nuxt, Electron, CSS3, Webpack, Ionic Framework, Laravel, SwiftUI, ¡Query

**Designing** Figma, Photoshop Adobe XD

**Data Visualization** CesiumJS, MapBoxJS, Chart.js, D3.js, three.js

**Backend** Flask, MongoDB

**DevOps** Git, GitlabCl, Nginx, Docker, AWS, Octopus Deploy

**Embedded System** Arduino, Raspberry Pi

**Programming Languages** TypeScript, JavaScript, Python, Swift, PHP, C++