Yu-Chung **Lee**

Taiwan

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Experience

PhaseTech   *New Taipei City, Taiwan*

SOFTWARE ENGINEER   *Jan 2022 - Jul 2023*

- Led and developed MarineCom(patent pending), a budget satellite communication solution costs 75% less compared to 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.
- Developed and implemented technical strategy and roadmap.
- Overseen the development and maintenance of software applications and infrastructure.
- Conducted assessment of drone's geographical usage, resulting in over 50% cost savings while ensuring ensuring data privacy.

Advanced Computation Laboratory   *Keelung City, Taiwan*

ADJUNCT RESEARCH ASSISTANT, SOFTWARE ENGINEER   *Jan 2019 - Jan 2022*

- 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.

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, Electron, CSS3/SASS, Ionic Framework, Laravel, Angular, SwiftUI, Webpack, jQuery, Bootstrap
Designing	Adobe XD, Photoshop
Data Visualization	CesiumJS, MapBoxJS, Chart.js, D3.js, three.js
Backend	Flask, MongoDB
DevOps	Git, Nginx, Docker, Vagrant, GCP, GitlabCI
Embedded System	Arduino, Raspberry Pi
Programming Languages	JavaScript, Python, Swift, TypeScript, PHP, C++, Kotlin