

CHING KAO

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Education

University of California, Irvine *Master of Software Engineering* Irvine, California Dec 2026

Course in progress : Distributed Architecture, Concurrent Programming, Neural Network Programming, Applied Data Analytics

National Taiwan Ocean University *Bachelor of Maritime Science and Management* KeeLung, Taiwan Jun 2016

Experience

Logic Solutions, Inc. - Software Engineer Taipei, Taiwan Sep 2023 - Nov 2024

- **Quantum** - Enterprise data management platform for safety and environmental reporting.
 - Delivered legacy system integration in 3 weeks, resolving 4,000+ merge conflicts and ensuring 99.9% uptime by aligning with product teams, leveraging AI, and using phased delivery.
 - Developed reusable Angular components and shared modules, cutting development time by 70%.
 - Refactored state management from MVC to MVVM across 5+ modules, decoupling components from business logic and boosting unit test coverage by 25% while improving test fidelity.
- **Yes & Travels** - multi-theme, SEO-optimized travel website and content management system (CMS).
 - Delivered Angular frontend with Azure AD B2C 25% ahead of schedule by leading the frontend team and coordinating with PM, design, and QA.
 - Improved SEO ranking to #1 for target keywords by implementing SSR with Angular Universal.
 - Built deployment pipelines with Docker & GitHub Actions, reducing deployment time by 80%.

PIMQ, Inc. - Software Engineer Taipei, Taiwan Feb 2021 - May 2023

- **Industrial Data Platform** - enabling real-time monitoring and streamlined compliance.
 - Built a visual component library with designers using Storybook and added CI visual tests, reducing requirement meetings by 50%.
 - Reduced rerenders by 50% and ensured consistent chart logic by abstracting 5+ charts into reusable components with custom hooks.
 - Replaced libraries with Highcharts.js& Antd, cutting package size 400MB+ and build time 20%.
 - Built real-time dashboard (Leaflet, MQTT) for machine/personnel data, improving operational visibility.

Projects

- **Cat Content Workflow** - in progress
 - Built automated pipeline for cat photos with AI-generated captions, cloud storage, and preprocessing.
 - Ensured scalable, reliable content delivery, minimizing manual intervention.

Technical Skills

- **Programming languages:** JavaScript, TypeScript, Java, Python, HTML5, CSS3
- **Frameworks:** React, Angular, Vue, Tailwind CSS, Express.js, Jest, Jasmine
- **Automation & DevOps:** Git, Docker, GitHub Actions, Azure DevOps
- **Other:** RESTful APIs, Data Structures, Algorithms, System Design, Agile/Scrum