

# Ching(Jim) Kao

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## Professional Summary

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- Full-stack Software Engineer with 3+ years of experience building scalable web systems and collaborating with cross-functional teams in fast-paced product environments.
- Hands-on experience building AI applications with RAG pipelines, semantic retrieval, and modern AI stacks including OpenAI Embeddings, LlamaIndex, pgvector, and Supabase PostgreSQL.
- Seeking AI Application Engineer or Full-Stack Engineer roles to build intelligent, user-centric systems that augment real-world workflows.

## Work Experience

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Software Developer Taiwan, Sep. 2023 – Nov. 2024

Logic Solutions (Digital Transformation Agency for Fortune 500)

- Led frontend delivery of an Angular + Azure AD B2C application, launching 25% ahead of schedule while achieving a 100/100 Lighthouse score and strong Core Web Vitals (FCP 1.2s, LCP 2.1s).
- Refactored application architecture from MVC to MVVM across 5+ modules, improving maintainability and increasing unit test coverage by 25%.
- Completed legacy system migration in 3 weeks by resolving 4,000+ Git merge conflicts and stabilizing cross-module dependencies.

Software Developer Taiwan, Feb. 2021 – May. 2023

PIMQ (AIoT & ESG solution for Decathlon's supply chain)

- Led a TypeScript-based component library initiative using Storybook and monorepo architecture, enabling seamless hot reload, simplified package releases, and consistent cross-team versioning.
- Integrated an SVG-based charting system with React lifecycle handling to eliminate rendering flicker and standardize 5+ reusable, type-safe chart components in TypeScript.
- Improved build performance and maintainability by migrating to Highcharts.js and Ant Design, using Webpack Bundle Analyzer to remove heavy dependencies and reduce build time by 20%.

## Projects

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AHA: AI-Powered Structured Thinking Workspace Irvine, Sep. 2025 - Present

- Built a full-stack AI workspace using React, Express APIs on Vercel Functions, and Supabase PostgreSQL with pgvector.
- Implemented RAG-based semantic retrieval using OpenAI Embeddings and LlamaIndex for context-aware draft generation and note continuation.
- Designed thread-aware retrieval to return complete note chains instead of isolated notes, improving contextual relevance and metadata preservation.

Automated Test Suite & CI for Apache Kafka Clients Irvine, Oct. 2025 - Dec. 2025

- Built a reliability-focused test suite for Kafka clients using Mockito to replace brittle state-based testing approaches.
- Created a GitHub Actions CI pipeline with JaCoCo coverage reporting and CodeQL static analysis to enforce code quality standards.

## Education

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Master of Software Engineering, University of California, Irvine Sep. 2025 - Dec. 2026 (Expected)

B.S. in Maritime Science and Management, National Taiwan Ocean University Taiwan, Sep. 2012 – Jun. 2016

## Technical Skills

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Frontend: JavaScript, TypeScript, React, Angular, Angular Universal, TailwindCSS, HTML, CSS, Redux, Rxjs, MSW

Backend: Node.js, Express, REST APIs, Java, Sequelize, SQL, Linux

Testing: Jest, React Testing Library, JUnit, Mockito, JaCoCo

AI / Data: Python, RAG, OpenAI Embeddings, LlamaIndex, pgvector, Keras, Deep Learning, Applied Data Analysis

Tools / Infra: Git, GitHub Actions, CI/CD, Webpack, Vite, Docker, Jira, Confluence, Agile