

# Tsan-Yu Wu (Leon)

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Full-stack engineer and CS master's student at Northeastern, fluent in Java/Spring Boot, React/TypeScript, and AWS.

Builds production systems by hand and designs multi-agent systems that plan, implement, and ship software end to end.

## PROJECTS

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### Campaign & SEO Management Platform

Demo | GitHub: [marketing-analytics](#)

Tech Stack: Java/Spring Boot, PostgreSQL, Spring Security/JWT, React/TypeScript, Redux, Docker, AWS

- Built and deployed a full-stack analytics platform adopted in production by a real company, cutting recurring analytics work by ~60% (hours/week).
- Engineered an event-ingestion pipeline (JS tracking snippet, layered REST API, PostgreSQL with composite indexes) with JWT auth and geolocation enrichment, plus a Google PageSpeed API SEO auditor.
- Deployed to AWS with a GitHub Actions CI/CD pipeline running tests against a live PostgreSQL container, shipping Docker images via zero-SSH auto-redeployment.

### Multi-Agent Software Development System

GitHub: [multi-agent-development-system](#)

Tech Stack: Claude Code (subagents, skills, hooks), Bash, Git

- Architected a six-agent system (PM, Doc-Sync, Tech Lead, Engineer, QA, Retrospective) that autonomously built TabVault, a deployed full-stack app, with agents coordinating through files rather than shared memory.
- Designed least-privilege information boundaries and human-in-the-loop approval at every handoff, reviewing and approving each step the system produced.
- Built a progressive-disclosure skill layer for token-efficient context plus git-backed atomic rollback, keeping all changes reviewable and reversible.
- Built by the system: [tab-vault.com](#) | GitHub: [tab-management](#)

## EXPERIENCE

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### Front-End Developer | Exascend

09/2023 - 08/2025 / Taipei, Taiwan

- Built a custom JavaScript event-tracking system posting structured user interactions to CRM and GA4 APIs, cutting manual reporting 70%.
- Led end-to-end development of two customer-facing websites from scratch (HTML, CSS, JavaScript), translating product requirements into technical implementations and growing monthly active users by 350%.
- Ran technical SEO and accessibility audits (Google Search Console, Lighthouse, WCAG) with improvements validated via A/B testing, increasing page views 48.8% while ensuring inclusive, accessible experiences.

### Marketing Project Manager | GoFreight

07/2021 - 03/2023 / Taipei, Taiwan

- Built and maintained a front-end codebase (HTML, CSS, JavaScript) with an A/B testing pipeline using variant logic and event tracking, driving a 670% conversion-rate improvement through iterative experimentation.
- Led cross-functional teams for a product launch, coordinating tracking integrations and a cross-channel strategy that generated \$16.5K in MRR.

## EDUCATION

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### Northeastern University

07/2025 - 12/2027 (Expected) / Seattle, WA, United States

Master of Science in Computer Science. GPA: 3.9/4.0

### National Chengchi University

09/2017 - 06/2021 / Taipei, Taiwan

Bachelor of International Business. GPA: 3.5/4.0

## SKILLS

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Languages: Java, JavaScript, TypeScript, Python, SQL, C++, C, HTML, CSS

Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, JWT, REST APIs, JUnit, Mockito

Frontend: React, Redux Toolkit, Vite, Axios, Recharts

Databases & Cloud: PostgreSQL, Redis, AWS (EC2, ALB, RDS, ElastiCache, S3, CloudFront)

DevOps & Tools: Docker, GitHub Actions, Nginx, Git, Maven

Analytics & Design: Figma, GA4, SEO, WCAG