

Kuan-Lin Wu

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EDUCATION

Carnegie Mellon University, School of Computer Science

Master of Software Engineering

Pittsburgh, PA

Dec 2026

- **Honors:** James E. Tomayko Graduate Scholarship, 2026 (academic excellence and leadership potential)
- **Coursework:** Database Systems, Distributed Systems, Software Architecture, Quality Management, DevOps

National Taiwan University

Master of Science in Computer Science

Taipei, Taiwan

Jun 2021

- **Publication:** [Weakly supervised video anomaly detection](#) (CVGIP 2021 oral paper)
- **Coursework:** Machine Learning, Deep Learning for CV, Operating Systems, Data Structures & Algorithms

National Taiwan University

Bachelor of Science in Chemical Engineering

Taipei, Taiwan

Jun 2019

SKILLS

Languages: Python, TypeScript/JavaScript, C++, Java, Go, SQL | **Frontend:** React, Next.js, Tailwind CSS

Backend & Identity: Django, FastAPI, SQLAlchemy, Node.js, NestJS, TypeORM, GraphQL, OAuth2/OIDC (Auth0, Keycloak)

Data & Analytics: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch, Airflow, ETL, Apache Spark

DevOps: AWS (EKS, RDS, S3), Azure (AKS), Kubernetes, Helm, Docker, Nginx, GitHub Actions, Jenkins, Argo CD, Ansible

AI & Observability: Amazon Bedrock, MCP, Langfuse, OpenTelemetry, Prometheus, Grafana, Kibana

EXPERIENCE

Co-Founder | KOLab Technology Limited (now 10lab)

Hong Kong | Jun 2024 – Sep 2025

- Co-founded KOLab and led end-to-end product development with sales and operations, translating diverse brand requirements into an influencer marketing platform supporting campaigns for 20+ brands including Heinz and Citi.
- Shipped an AI campaign workspace with a TypeScript/NestJS backend, integrating live messaging and shared campaign state with human-approved API actions to support ~50 concurrent collaborations per operator.
- Developed vector-based influencer search for a 150k+ creator-profile catalog, using structured filters, two-stage similarity ranking, and Redis caching to match creators with campaign requirements.
- Launched and operated a commerce platform on Azure Kubernetes Service with configurable brand-specific storefronts and payments, supporting 3,000+ creator-attributed orders, bookings, and coupon redemptions.

Software Engineer | BigObject Inc.

Taipei, Taiwan | Feb 2024 – Jun 2024

- Unified identity and access management across standalone data products through a shared Django/Keycloak authorization layer, establishing the foundation for centrally managed cloud services.
- Developed a Python/Airflow ETL pipeline consolidating product usage data into PostgreSQL, exposing tenant-scoped APIs that enabled the BI team to build customer-facing dashboards in Looker Studio.

Software Engineer | Linc Global Inc. (acquired by Capacity)

Taipei, Taiwan | May 2022 – Jan 2024

- Rebuilt a legacy shipment-tracking page with React/Next.js, adding server-side rendering and a style customizer for retailer-specific branding on a post-purchase platform serving 40M+ users.
- Optimized order and shipment queries in a Django/GraphQL platform handling 3M+ daily requests, consolidating repeated delivery lookups into a single order-level fetch to eliminate redundant database reads.
- Extended the metrics model and Python/SQL aggregation logic in an ETL pipeline processing 30M+ events/day, enabling analysis by business and customer segments across hourly and daily metrics.
- Developed scheduled SQL reporting and a Power BI-integrated analytics portal for 50+ e-commerce franchises, translating Customer Success requirements into custom reports, freshness-checked delivery, and self-service analytics.

PROJECTS

IRALOGIX Retirement-Plan Compliance Platform | CMU Studio Project | Team Lead

Jan 2026 – Dec 2026

- Architected a human-in-the-loop AI workspace on Bedrock for legal experts across 20+ state retirement programs, grounding rule proposals in curated sources with source-linked audit trails and explicit approval.
- Designed and implemented a deterministic Python/FastAPI engine with RESTful APIs and pinned rule bundles, enabling reproducible employer assessments, resume, and branching through append-only session histories.
- Led a five-person team from client discovery to system design and built an MCP-connected internal developer workspace, using context-access traces to review agent contributions against design principles and team requirements.

BusTub Database Internals | CMU Database Systems

Jan 2026 – Apr 2026

- Implemented a concurrent B+ tree in C++ with optimistic latch crabbing, then reduced traversal overhead and buffer-pool contention through root-page ID caching and shared-latch access, earning a leaderboard bonus.