

Shang-Jung Tsai

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EDUCATION

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Bachelor of Science in Computer Science

2023 - 2027 (Expected)

- **Courses:** Intro. to Machine Learning (A+), Intro. to Compiler Design (A+), Intro. to Computers and Programming (A+), Computer System Administration (A)

EXPERIENCE

Software Engineer

2025 - Present

Rightway (Tech startup)

Taiwan (Remote)

- Delivered end-to-end full-stack solutions with rapid MVP turnaround
- Designed and operated Azure cloud infrastructure and deployments
- Maintained containerized production systems with secure storage

IT Intern

Summer 2026

TSMC - TSID

Hsinchu, Taiwan

- Developed backend daemons using Spring Boot for internal IT systems.
- Implemented backend and database processing workflows for high-volume data workloads.

ACHIEVEMENTS

2026 TSMC IT CareerHack (7th Campus Hackathon)

2026

TSMC

Taipei, Taiwan

- Won 2nd place in Group C (IT Incident Assistant track)
- tsmc.com/static/english/careers/Careerhack

Codefest Taipei 2025 Spring

2025

Codefest Taipei

Taipei, Taiwan

- Won first place in the hackathon and earned an NTD 300,000 prize
- codefest.taipei/2025-spring/

PROJECTS

IT Incident Agent | *FastAPI, Vertex AI (Gemini), Vue, Vite, PostgreSQL, Discord API*

2026

- github.com/shangjung1012/IT_Incident_Agent
- Built an incident response assistant with case search, severity analytics, and knowledge retrieval for faster triage and root-cause analysis.
- Implemented FastAPI services with Discord integration, background scheduling, and Vertex AI agent workflows, plus a Vue dashboard for case visualization.

Taipei City Dashboard | *Codefest Taipei 2025 Spring*

2025

- github.com/shangjung1012/Taipei-City-Dashboard
- citydashboard.taipei
- Public-facing open data dashboard by Taipei Urban Intelligence Center (TUIC), blending statistical and geographic data to support policy decisions and public transparency.

TownPass Microservice | *FastAPI, SQLAlchemy, Alembic, Vue, Vite*

2025

- github.com/shangjung1012/townpass-microservice
- Built a microservice demo with a FastAPI backend and Vue frontend, designed for deployment to Cloud Run and Firebase.
- Implemented core product workflows including user authentication, pass browsing, booking/order handling, and admin-side management features.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, Verilog, Bash

Web: Vue.js, Next.js, Flask, FastAPI, Spring Boot, TailwindCSS

Databases: MySQL, PostgreSQL, SQLite, Redis

Developer Tools: Git, Docker, Argo CD, Google Cloud Platform, VS Code

Systems: Linux, Kubernetes, Cloud Run, Firebase