Liu Zhe You

Mail | Github | LinkedIn

EDUCATION

National Cheng Kung University   Tainan , TW
Bachelor of Computer Science and Information Engineering   *Expected September 2026*
- **TSMC Hackathon - IT Infra Automation Monitoring using GenAI 2024** :   Second Place
- **ICPC Asia Taiwan Regional Programming Contest 2023** :   Bronze Medal
- **National Collegiate Programming Contest 2023 & 2022** :   Merit Award
- **Programming Coursework** :   Algorithms & Data Structures , Computer Arch , System Adminstration

EXPERIENCE

Part-time SWE   December 2023 – Present
PAIA company | Django, PostgreSQL, Redis, Docker, Pytest, Performance Profiling   *Hybrid Working*
- Fix the Redis anti-pattern for calculating 'today_login_count' and speed it up over 300 times.
- Developing new features and refactoring with Test-Driven Development.

Part-time SWE   April 2023 – Present
GLSoft company | FastAPI, Docker, MySQL, POC, Solution reserach, Vue3, Git Flow   *Remote*
- Setup RBAC system for over 100 roles in production system .
- Design over 30 API for a tableware rental service, implement them in FastAPI, SQLAlchemy and follow Git Flow.
- Research solutions and build POC across 4 projects, including a Proxy-Site, WYSIWYG Editor, open-source
  CRUD Dashboard, and Next.js UI framework.

COMMUNITY & LEADERSHIP

Conference Guest Speaker   November 2023
MOPCON(Mobile Open Platform Conference)   *Kaohsiung Exhibition Center*
- Topic : "Creating an AI training ROS map editor using Three.js, exporting to FBX for use in Unity."
- Utilize Three.js and Vue3 to build scene buidler frontend for digitial twin system.
- Over 100 audience members attended our lecture session.

Director/DSA Lecturer   July 2020 – July 2021
Wuling Computer Science Club   *Wuling Senior High School*
- Teaching C++ syntax, data structures, and algorithms to a club of 50 members.
- Increasing course engagement by 30% by leading committee members to organize diverse lectures.

PROJECTS

IT Infra Automation Monitoring using GenAI | *CI/CD, GCP, Github Action, FastAPI*   January 2024
- Wrote a general Message Queue consumer API simulating different error scenarios.
- CI/CD setup: Faced with insufficient GCE permissions, I built a CI server that integrates with GitHub Actions.
- Utilize IAM, Cloud Run, GCE, Artifact Registry and Log Exporter SDK for the hackathon.

FastAPI Vue3 OAuth2 | *FastAPI, PostgreSQL, Vue3, Docker, Git*   October 2023
- A boilerplate for building a FastAPI with Vue3, including OAuth2 authentication with JWT tokens.
- Assist more than 5 foreigners in solving project setup and discussing OAuth2 best practices.

iThome Ironman 30-Day Article Series | *FastAPI, PostgreSQL, Redis, Docker, Pytest, MQ*   May 2023
- Topic : "FastAPI Implementation, Testing, and Deployment."
- Use Redis to implement caching for pagination and 'get by id' operations, achieving a 1.5x performance boost.
- Implement a primary-replica structure to enhance parallel reading performance by over 1.3 times.
- Over 2500 people viewed the article series, with an average of 300 views per article.

TECHNICAL SKILLS

Languages: C, C++, Python3, Go, PHP, Java, JS, HTML, CSS
Frameworks: FastAPI, Flask, Django, Gin, Vue3, React
Databases: MySQL, PostgreSQL, Redis, SQLite
DevOps Tools: Docker, Kubernetes, Github Actions, GCP, Git, Linux