Lin, Po-Ru

Taipei, Taiwan | flyotlin@gmail.com | (+886) 916680923 | https://linktr.ee/flyotlin

www.linkedin.com/in/flyotlin | github.com/flyotlin

Summary

Software engineer with experience in backend development, software testing, and DevOps. Skilled in building scalable web applications using JavaScript (Vue3), Laravel, and Golang.

Passionate about automation, CI/CD, and contributing to open-source projects.

Strong problem-solving skills, leadership experience, and a team-oriented mindset.

Education

National Yang Ming Chiao Tung University (NYCU), MS in Computer Science	Sep, 2023 – Now
National Central University (NCU), BS in Computer Science	Sep, 2019 – Jun, 2023

Experience

Web Team Developer @ NYCU CSIT   Sep, 2023 – Now
- Developed and maintained 5+ production-grade websites using Vue3 and Laravel.
- Implemented PHPUnit feature testing to increase test coverage.
- Designed and deployed a GitLab bot in Rust, automating issue tracking.
- Led multiple projects and ensured all deadlines were met.

Backend/Big Data Engineer Intern @ Thingnario   Sep, 2022 – Jun, 2023
- Developed Python scripts to integrate IoT devices to improve data processing efficiency.
- Created parsers for Modbus IoT sensors, optimizing data collection accuracy.

Software Engineer in Test Intern @ Synology   Feb, 2022 – Sep, 2022
- Implemented integration tests for DSM WebAPI in Python to reducing bug reports.
- Developed a Go-based tool linking Git with internal issue tracking, streamlining the development workflow.
- Fixed critical C/C++ issues detected by Coverity, improving system stability.

Web Developer @ NCU's Office   Feb, 2021 – Jun, 2023
- Developed a international cooperation website in Next.js and Golang
- Maintain the website in PHP Laravel
- Operate the web server for the website

Web Team Leader @ NCUFresh 21   Jan, 2021 – Sep, 2021
- Build a freshman-facing website in Express.js, Nuxt.js, and MongoDB, serving 1,000+ new students.
- Managed a team of developers and ensured project delivery on schedule.

Project

Simple Operating System in C   github.com
- Developed an OS for Raspberry Pi 3b+ in C.
- Implemented bootloader, memory allocator, and process management.

Badminton Court Agent   github.com
- Built a Telegram chatbot in Python that automates badminton court reservations on 17Fit.com.
- Deployed by GitHub Action and tested in Pytest.

Half frame Utils   github.com
- Built a CLI tool in Golang to crop scanned half frame images.
- Upload cropped images to self-hosted immich server.

Immich Contributor   Jun, 2023 - Now
- Fixed multiple frontend issues in SvelteKit, enhancing user experience.

Coding Interview University (Translation Project)   Feb, 2020 - Now
- Translated the entire study plan from English to Traditional Chinese, benefiting thousands of learners.

Award and Publication

Optimization of message delivery reliability and throughput in a DDS-based   Aug, 2023
system with per-publisher sending rate adjustment
- Researched reliability and throughput of message delivery in FastDDS.
- Implement the experiment in Python and Ansible.

ICPC Taipei Bronze Medalist   Nov, 2021
- Competed in the International Collegiate Programming Contest (ICPC) Taipei Regional.

Skill

Programming: C/C++, Python, JavaScript, PHP, Golang, Java

Frontend: JavaScript (Vue.js), Laravel

Backend and Database: Python, PHP, JavaScript, Golang, Database

DevOps and Software Testing: Docker, Kubernetes, CI/CD, Unit/Integration/e2e Testing, Static Code Analysis

Languages: English (TOEIC 935), Japanese (JLPT N2), Mandarin (Native)