Yu Jung Lee

SOFTWARE ENGINEER

Taipei, Taiwan

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Summary

- 3+ years experience in full-stack software development.

- Proficient in JavaScript/Vue.js for front-end and C++/Python for back-end development.

- Spearheaded the redesign of legacy code, including transitioning a database client to an ORM and modernizing a legacy app from ExtJS to Vue, improving maintainability and developer productivity across 3+ projects.

- Led a team of 5 in app refactoring, collaborating with PM and cross-functional teams, while also managing a university club of 20+ members during studies.

Skills

Programming Languages	C/C++, Typescript/JavaScript (Vue.js, Ext JS), HTML/CSS, Python, Matlab
Database	PostgreSQL, SQLite, Redis
Miscellaneous	Linux, Shell Script, GitLab, CMake, GDB
Language	Mandarin Chinese, English (TOEFL: 92), Japanese (JLPT: N1)

Work Experience

Synology Inc *Taipei, Taiwan*

Product Developer *Nov 2021 - Current*

- Led a team of 5 in overhauling calendar web applications from ExtJS to Vue3 and TypeScript, establishing components libraries and integrating linting tools into the CI pipeline for consistent coding styles.
- Refactored the database client by switching to an ORM-style library, optimizing SQL queries and indexing strategies, which notably improved code readability and enhanced SQL performance by over 40%.
- Created a scalable PostgreSQL server application with member management, load balancing, and failover capabilities. The solution achieved 99.9% system availability (from zero) and boosted read query performance by 2.5x with a 3-node setup.
- Collaborated with PM, UI/UX to develop an integrated logging solution that consolidated information streams from 4+ projects into cohesive, searchable transactional records, reducing email tracing times from hours to minutes.
- Researched and integrated advanced email authentication protocols such as ARC and DANE, improving security compliance based on sales feedback, attracting 3 overseas public sector clients with strict security requirements.
- Developed stress testing tool for chat web applications, integrating automated system resource monitoring tools that identified performance bottlenecks and provided optimized recommendations tailored to 10+ device models.
- Ported 10+ open source projects, including PostgreSQL and Apache HTTPD, to applications while enhancing security by addressing CVEs.

Education

National Taiwan University *Taipei, Taiwan*

Master of Science: Mechanical Engineering *Sep 2019 - Jul 2021*

- Served as a Student Advisor for the NTU Winter Program, guiding international students through academic and cultural adjustments.

Okayama University *Okayama, Japan*

Exchange Program Okayama (EPOK) *Sep 2017 - Aug 2018*

- Volunteered at a language exchange cafe, practicing language skills and fostering cross-cultural communication with locals and international students.

National Taiwan University *Taipei, Taiwan*

Bachelor of Science: Mechanical Engineering *Sep 2013 - Aug 2018*

- Led a team of 20+ in managing event promotions and producing showcase teasers for a pop dance club.