YenChen **Liu**

SOFTWARE ENGINEER

 yenchenLiu | daychen

Summary

Seasoned software engineer with 8+ years of experience, specializing in programming, data management, team leadership, and mentoring. Known for developing high-performance systems, managing large-scale data projects, and pioneering innovative solutions in diverse industries. Skilled in promoting collaboration, embracing new technologies, and driving growth.

Education

National Taiwan University of Science and Technology *Taipei, Taiwan*

MASTER OF INFORMATION MANAGEMENT *Feb. 2018 – June 2019*

- Thesis: On Design and Implementation a Fault-Tolerant Microservice Architecture without Single Point of Failure
- GPA: 3.58/4.3

Work Experience

Predico Software Pty Ltd. (Cloud-Based Energy Data Science) *Brisbane, Australia*

FULL-STACK DEVELOPER *June 2023 - Present*

- Leveraged profiling tools to tackle performance bottlenecks, boosting system efficiency significantly.
- Transformed unit testing by reducing coupling with mocks, cutting redundant code, and parallelizing tests—trimming test times to a third (from 220s to 60s) and doubling CI speed.
- Tackled critical system issues including a major database connection leak, enhancing system reliability and performance.
- Deployed caching to stabilize data access, boosting data retrieval performance sixfold (from 30s to 5s) through effective profiling.
- Redesigned backend architecture for greater flexibility and scalability, bolstering system robustness and extensibility.

TeamT5 Inc. (CyberSecurity) *Taipei, Taiwan (On-site & Remote)*

SOFTWARE ENGINEER *July 2020 - March 2024*

- Software Engineer (July 2020 - January 2023):
  - Engineered advanced distribution systems for optimised performance and efficiency, utilising cutting-edge technologies.
  - Established resilient production environments with VMs and Kubernetes, implementing high availability (HA) and monitoring features.
  - Ensured real-time service monitoring and automatic failover during server failures, preventing service interruptions.
  - Designed large-scale data centres using Hadoop Ecosystem, mastering 10+ TB of data analysis with Apache Spark.
  - Participated in Scrum development and explored emerging technologies for innovation.
  - Mentored junior team members and crafted comprehensive documentation contributing to project success.
- Software Consultant (Freelance) (February 2023 - March 2024):
  - Guided system architecture planning and trained staff for high-quality software delivery.

Oursky Limited, Taiwan Branch. (Software Engineering Services) *Taipei, Taiwan (On-site & Remote)*

SOFTWARE DEVELOPER *June 2019 - May 2020*

- Loan Matching Platform: Developed user-friendly mobile landing and calculator pages using React Native.
- Workflow System: Created versatile Python microservices for efficient process management.
- In-store Gaming Platform: Designed engaging mobile app and backend system to enhance customer experiences.

ALL ONE Biotechnology Co., Ltd. (Biotechnology) *Remote, Taiwan*

DATABASE SOFTWARE ENGINEER *June 2014 – June 2017*

- Developed a user-centric measurement system for proactive health monitoring and alerts.
- Architected robust back-end systems, supporting 1,000+ daily users with superior reliability.

Programming Skills

Languages	Python, Golang, Typescript
Frameworks	FastAPI, Django, Flask, React, Airflow, PySpark
Databases	Hadoop, PostgreSQL, MySQL, ElasticSearch, HBase
Technologies	Kubernetes, Docker, Kafka, RabbitMQ, gRPC, RestfulAPI, GCP, AWS, Git

Certificates

2019	**Associate Cloud Engineer**, Google Cloud Platform (GCP)	*13049092*