Andy Wu (Bo-Ting Wu)

Backend Developer / Taipei, Taiwan

As a fast learner with three years of experience in developing web services (SaaS), I am dedicated to building performant and scalable applications through advanced RDBMS knowledge and distributed system theorems. My passion for writing clean, maintainable, and reusable code drives my commitment to building systems that serve users effectively, which provides a strong sense of accomplishment for me.

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Skills

- Tech Stacks: **Golang** | **Node.js** | **Oracle** | **MySQL** | **PostgreSQL** | **MongoDB** | **Redis** | **Zookeeper** | **Kafka**
- DevOps Tools: CI: **Jenkins** | CD: Argo CD* | Kubernetes* | **GCP** | **Docker** | **Prometheus** | **Grafana** | **ELK**
- Software Development Methodologies: **GitFlow** | **GitLab Flow** | GitOps Flow* | **Agile** methodologies with **Jira**
- Others: **Linux** (*Ubuntu, CentOS*) | **Advanced RDBMS knowledge** (*query plan, index, isolation levels, MVCC, B-tree/heap files, data replication, and CDC*)
- *Self-taught.*

Education

- B.S., Computer Science, Tamkang University, Taipei, Taiwan, 2016 - 2020
- Visiting Program, Computer Science, Winona State University, MN, U.S., 2018 - 2019

Work Experiences

- ### Backend Developer

  Axiom Digital Tech Co., Ltd., Taipei, Taiwan • Feb. 2023 - Present

  Collaborated as a member of the backend team which was responsible for developing banking APIs for both mobile and web frontends within our casino banking and accounting system.

  - **Achievements**
    - Significantly reduced the batch transfer API latency from 65 seconds for 300 payments to just 4 seconds for 1000 payments for the enterprise batch salary payment function.
    - Enhanced system-wide debugging capabilities by introducing consistent logging UUID across services, easing the debugging process for all team members.
    - Set up application performance monitoring (APM) within our current tech stack as a POC and introduce it to teammates, providing visualized insights for API performance bottlenecks.
    - Promoted knowledge-sharing within the company by conducting two tech-sharing sessions.
    - Researching Change Data Capture (CDC) and exploring its applications for our system currently.

Backend Developer

Future Tech Development Ltd., Taipei, Taiwan • Feb. 2021 - Feb. 2023

Collaborated as a member of the platform team which was responsible for developing microservices to support the online casino games' back office system and game server.

- Achievements
  - Built robust microservices by leveraging cloud design patterns such as single flight, retry with backoff, and graceful shutdown, enhancing the reliability and stability of our services.
  - Simplified the process of the real-time game statistics calculation while maintaining consistency by introducing message queue (Kafka).
  - Conducted code refactoring, bringing legacy code up to clean code standards, ensuring easier maintenance and future development.
  - Improved the performance of the pagination APIs by optimizing slow queries, speeding up the execution at least twice as fast.
  - Implemented system monitoring by setting up Prometheus and Grafana in the development environment. Integrated these tools with the messaging app (LINE) to receive instant alerts about system abnormalities.
  - Demonstrated proactive problem-solving and teamwork by creating a one-click game login tool as a side project, expediting the testing process for all team members during development.

Fullstack Summer Intern

Cathay Life Insurance Co., Ltd., Taipei, Taiwan • Jul. 2019 - Aug. 2019

Collaborated as a member of the internal investment system team in the investment information sector which was responsible for the implementations of frontend web views and backend APIs.

- Achievements
  - Embarked on a learning journey as a student, gaining valuable experiences involved in the full software development cycle within a large-scale insurance company (IT & Engineering Department of over 800 employees).
  - Learned writing unit tests, and integration tests, and recognizing their importance in ensuring software quality.

Side Projects

Personal website and tech blog hosted on GCP

- https://andywu.tw • https://notes.andywu.tw
- Tech stacks: **GCP** | **GCE** | Cloudflare **CDN** | **Docker** | **Prometheus** | **Grafana**
- Believe sharing is the best way to learn. Dedicated to continuous learning, and taking tech notes not only to enhance my own skills but also to provide valuable resources to others. These notes also serve as a documented record of the growth of my developer journey.