



# Harvey Jhuang

- **Extensive Backend Engineering Expertise:** Over 7 years of experience designing scalable, reliable, and maintainable systems using Go, MySQL, and cloud-native technologies like Kubernetes and GCP.
- **Proven Leadership:** Successfully built systems from zero to one, leading teams of various sizes to deliver robust, scalable solutions with minimal technical debt under tight timelines.
- **Team Development Focus:** Managed teams of 25+ engineers, improved code quality through unit testing, and enhanced performance through systematic training and optimization.
- **DevOps Proficiency:** Streamlined CI/CD pipelines, implemented database version control, and established real-time monitoring to ensure proactive issue resolution.
- **Architectural Excellence:** Designed adaptable system architectures with reusable frameworks and auto-scaling solutions, significantly reducing development time and meeting dynamic requirements.
- **Financial System Expertise:** Developed secure fiat/crypto modules, compliance workflows, and ETL pipelines, processing millions of records efficiently to enable data-driven decision-making.

Tech Lead | System Architect | Senior Developer

Taipei Special Municipality · TW

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## CORE COMPETENCIES

### Hard Skills

- Languages: Go, Python, Shell
- RDBMS : MySQL, PostgreSQL
- NoSQL : Redis, MongoDB
- MQ: Kafka, Nats
- Cloud: GCP
- Others: kubernetes, Docker, Git, Nginx, Helm

### Soft Skills

- Good team management & player
- Strong problem-solving ability
- Self-learner
- Highly stress resistant
- Great presentation
- Project Management

### Languages

- Chinese (native)
- English (TOEIC 835)

## EXPERIENCE

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### Senior Backend Engineer at BitYacht.io · 2024/02 - Now



- Skills: Go, MySQL, Redis, kubernetes, Docker, Helm, Git, GCP
- Highlight:
  - As a Tech Lead role
    - Lead small team to build up **BitYacht Exchange** from zero to one, overseeing feature analysis, development, testing, and maintenance to ensure efficient task execution and avoid wasted efforts.
    - Designed and implemented a reusable project framework, reducing development time by 40%.
    - Developed a scalable, reliable, and maintainable system architecture, enabling cost-effective adaptations such as auto-scaling and service splitting.
  - As a Developer role
    - Designed and implemented a secure fiat currency module for deposits and withdrawals, using FSM to validate each step.
    - Developed a flexible cryptocurrency module, enabling safe transactions and automatic detection of abnormal cash flows for compliance.
    - Built a blacklist module to help compliance teams quickly restrict user behaviors.
  - As a SRE role
    - Automated image building and deployment with GitHub Actions and GCP Artifact Registry, streamlining developer workflows.

- Defined Helm charts and deployed services to GKE, ensuring a consistent and simplified deployment process.
- Utilized Flyway for database version control to prevent migration failures.
- Implemented real-time monitoring with Cloud Monitoring, alert policies, and Slack notifications for immediate issue resolution, including high resource usage, slow queries, and scaling events.

## Senior Backend Engineer at Bitgin.net , 2022/07 - 2023/12



- Skills: Go, PostgreSQL, Redis, Nats, MongoDB, kubernetes, Docker, Helm, Git
- Highlight:
  1. BITGIN Exchange
    - Add unit test framework for project to make sure code's quality
    - Coupon and point system for marketing
    - Develop strategy tool which reduce user 99% time on Defi investment
    - Questionnaire system for EKYC flow to reduce 30% time on KYC flow
  2. REYIELD.fi
    - Design and implement project framework to ensure modular programming.
    - Develop Uniswapv3 bot which has auto rebalance to make investor get higher profit.

## Technical Product Manager And Backend Team Lead at 天堂遊戲 (Paradise Soft) , 2020/10 - 2022/05



- Skills: Go, MySQL, Redis, Kafka, MongoDB, Docker, Git
- Highlight:
  1. Team Management
    - Management of the backend team (25-30 members) includes performance evaluation, team cooperation, target planning, and training members.
    - Lead team to implement unit test and increase test coverage about 20%
    - Conducted monthly technical sharing sessions to enhance team skills, achieving a 30% improvement in slow query performance following a MySQL-focused session.
    - Lead DevOps team (5-10 members) to reduce about 33% cloud services cost
  2. System infrastructure design
    - Drive design architecture of the sportsbook system
      - Average latency on odds synchronization is less than one second
      - Wager throughput on single node is about 900 per second
    - Lead team refactor report system for stable, flexible and maintainable
      - Optimize data synchronization process to make services can horizon scale
      - Add message queue to reduce data latency from 1 hour to 1 minute
      - Depart system to multiple module to reduce half time on developing
  3. Coding
    - Design and implement architecture of P2P payment system
    - Optimize slow SQL query and reduce our system requirement
    - Refactor payment system to reduce 30% time on add a new payment

## Backend Engineer at 天堂遊戲 (Paradise Soft) , 2018/01 - 2020/10



- Skills: Go, MySQL, Redis, Kafka, MongoDB, Docker, Git
- Highlight:
  1. Save clients' time by automatically generating financial reports for them
  2. Designed an inquiry system to enable fast, flexible, real-time queries on massive datasets, achieving 0.1-second response time for statistical queries and 2 seconds for ordered outputs on 50 million rows.
  3. Build a data pipeline system base on Kafka and Golang service to handle data automatically. it handle events about 5000~8000 rows/sec or 5~10 mb/sec for single game platform

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## Data Analyst at 早餐吃麥片 (Morning Shop) , 2016/10 - 2018/01



- Skills: Python, MySQL, Git
- Highlight:
  1. Use the Apriori algorithm to find the best combination of products and the sales of the new product set is 7 times more than the sales of the old one.
  2. Build customer segmentation and VIP system to increase members' average purchase times from 1.43 to 1.74.
  3. Calculate net promoter score (NPS), customer lifetime value (LTV) and cohort analysis to check the health of our eCommerce.

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## Intern at 台灣工銀證券 (IBT Securities) , 2013/07 - 2013/09



## EDUCATION

### Master of Finance

National Chi Nan University, Nantou, Taiwan  
Sep. 2013 - Jan. 2015

### Bachelor of Finance

National Chi Nan University, Nantou, Taiwan  
Sep. 2009 - Jun. 2013