

TINGZHANG HUANG

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EDUCATION

King's College London | London, UK

Bachelor of Science in Computer Science | September 2024 – June 2027

SKILLS

Programming Languages: Python, Go, Java, JavaScript, C++

Infrastructure & Cloud: Linux, Kubernetes, Docker, Helm, Terraform, Oracle Cloud, AWS Fundamentals, Load Balancing, CI/CD automation

Observability & Reliability: Prometheus, health checks, uptime monitoring, autoscaling, SLO/SLA awareness, incident troubleshooting

Backend & Systems: REST APIs, gRPC, PostgreSQL, MySQL, Redis, RabbitMQ, distributed systems, microservices

Developer Tools: Git, GitHub Actions/Jenkins, Docker Swarm, Agile

EXPERIENCE

Hangzhou Qimeng Technology Co., Ltd | Hangzhou, Zhejiang, China

Software Engineering Intern | June 2025 – Feb 2026

- Maintained **Java Spring Boot**, **MySQL**, and **API** services for an e-commerce platform, improving **reliability**, **API stability**, and **data consistency**.
- Fixed production bugs, documented technical solutions, and collaborated with cross-functional teams to ship 10+ backend and platform improvements.

WOOK / Shenzhen Wook Feifan Technology Co., Ltd | Shenzhen, Guangdong, China

Platform Operations & Reliability Support | June 2026 – Present

- Supported *Wook* operations for a Southeast Asia-focused retail platform, assisting with **deployment checks**, **monitoring**, and **troubleshooting**.
- Built runbooks for **12+** recurring production issues, covering **log inspection**, **diagnosis**, **rollback**, **recovery steps**, and **escalation paths**.
- Reduced troubleshooting time by **30%** through issue triage, failure-pattern documentation, and handoffs.

PROJECTS

Anime Streaming Platform | FastAPI, Next.js, Docker, Kubernetes, Terraform, Prometheus, Oracle Cloud, CI/CD

- Operated a production **video streaming platform** serving **3K+ monthly active users**, owning infrastructure, deployments, monitoring, and reliability.
- Deployed services on self-managed **Kubernetes** with **Docker**, **Helm**, and **Terraform**, reducing manual operations by **40%**.
- Implemented **autoscaling**, **load balancing**, **health checks**, **Prometheus monitoring**, and **CI/CD** workflows to improve availability and release consistency.
- Optimized video delivery for lower-latency playback and stable performance under variable network conditions.
- Built **Git-based deployment workflows** with **rollback-friendly releases**, improving operational safety during production updates.

Kubernetes Infrastructure & Cloud-Native Migration | Kubernetes, Docker, Microservices, Helm, Load Balancing

- Designed **multi-node Kubernetes clusters** for microservices, improving scalability, fault isolation, and platform reliability.
- Migrated legacy workloads to **Docker/Kubernetes**, configured **health checks**, **failover**, and **load balancing**, supporting **99.9% uptime**.
- Standardized deployments with **Helm charts**, reducing manual deployment time by **50%**.
- Documented **deployment and recovery procedures** to make infrastructure operations more repeatable and easier to maintain.

Distributed Task Queue System | Go, Redis, RabbitMQ, PostgreSQL, Docker, Kubernetes, gRPC, REST API

- Built a Go distributed task queue processing 20K+ daily tasks with RabbitMQ, Redis, and PostgreSQL.
- Implemented priority scheduling, retries, timeout handling, and failure recovery for reliable async processing.
- Designed **REST/gRPC APIs** and reduced metadata query latency by 50% through Redis caching.
- Deployed workers on **Docker/Kubernetes**, enabling **horizontal scaling** and **automated recovery**.
- Achieved **99.8%** uptime through health checks, stateless workers, and failover-aware deployment patterns.