

RAY TOH HONG XIAN

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Skills

Languages	Go, Python, C# (.Net)
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch
Technologies	Git, gRPC, Kafka, RabbitMQ, Solace, Docker, Kubernetes, AWS, GCP, Jaeger

Experiences

GetGo

Singapore

Senior Software Engineer

Jan 2023 – Present

- Rearchitected monolithic systems into event-driven microservices, utilizing the orchestration pattern for distributed transactions across multiple microservices.
- Built a proxy server with custom rate limiting and circuit breaker capabilities, mitigating DDoS attacks on the SMS OTP API and strengthening fault tolerance.
- Enhanced EV charging servers to be [OCPI](#)-compliant, reducing engineering effort to onboard new providers by 10x, enabling the company to scale to thousands of EVs with minimal operating costs.
- Introduced n-gram tokenizers in Elasticsearch mapping, reducing substring search query time on large datasets from 5s to 0.5ms.
- Drove major refactoring efforts and authored a utility package to abstract common middleware and functionalities, reducing code duplication and improving consistency across repositories.
- Promoted annually for strong performance, technical expertise, and leadership.

Carousell

Singapore

Software Engineer

Aug 2022 – Dec 2022

- Led a large-scale overhaul of product categorization, seamlessly migrating 5M+ listings with zero downtime, improving search relevance and boosting product-to-sale conversion by 15%.
- Migrated endpoints from a Django monolith to Go microservices, enhancing modularity and error handling, which improved engineering productivity and reduced error rates by 5X.

DBS Bank

Singapore

Software Engineer Intern

May 2022 – Aug 2022

- Developed server and job enhancements for a proprietary Forex application using Go.
- Enhanced API observability in microservices by implementing distributed tracing with Open Telemetry and Jaeger, accelerating debugging and performance optimization.

Reluvate Technologies

Singapore

Software Engineer Intern

Dec 2021 – Feb 2022

- Drove digital transformation for client businesses by automating job matching, scheduling, personalized suggestions, and financial reconciliation processes.

Open-Source Projects

[URL Shortener](#) Full-stack application with authentication, file storage, reverse proxy, and CI/CD

[React Portfolio](#) Static frontend site built during college

Education

National University of Singapore

Aug 2019 – Aug 2022

Bachelor of Computing (Honors) in Computer Science

- Graduated with Distinction
- Relevant Coursework: Database Systems, Computer Networks, Information Security, AI