

# RAY TOH HONG XIAN

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[LinkedIn](#) | [Github](#) | [Website](#)



## Skills

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Languages: Go, C++, Python, Java  
Databases: PostgreSQL, MySQL, MongoDB, MariaDB, Redis, Elasticsearch  
Technologies: HTTP, gRPC, Kafka, Docker, Kubernetes, AWS, GCP, Git, Nginx, Django, Express.js, React.js, Node.js

## Experiences

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### Carousell

Singapore

Software Engineer

Aug 2022 – Present

- Orchestrated the revamp of categories, coordinating 10+ teams and migrating 5,000,000+ listings
- Migrated existing endpoints from Django monolith to Go microservices, reducing error rate by 99+%
- Ensured zero system downtime by resolving system alerts and incidents swiftly during on-calls

### DBS Bank

Singapore

Software Engineer Intern

May 2022 – Aug 2022

- Developed enhancements on TRAX, a proprietary forex application in Go built around microservices
- Improved the observability of systems with distributed tracing using Open Telemetry and Jaeger
- Conducted automated Unit Testing and Integration Testing on new features to prevent regression

### Reluvate Technologies

Singapore

Software Engineer Intern

Dec 2021 – Feb 2022

- Spearheaded the digitalization of client companies by automating operations and processes
- Facilitated UATs to formulate non-functional requirements and migrated data from legacy systems
- Built with Django, PostgreSQL and AWS to serve RESTful APIs and reverse proxying using Nginx

### DSTA

Singapore

Machine Learning Intern

May 2021 – Aug 2021

- Modeled smart behaviors for computer-generated forces using Unity's AI framework, ML-Agents
- Explored the use of DRL algorithms including Soft-Actor Critic and Proximal Policy Optimization
- Incorporated self-attention mechanisms in DRL neural networks to reduce training time by 70+%

## Open-Source Projects

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**React Portfolio Website** React.js, Bootstrap, Material-UI, gh-pages

[View Website](#)

**Personal Blog** React.js, GraphQL, Gatsby, gh-pages

[View Blog](#)

**URL Shortener** MySQL, Express.js, React.js, Node.js, AWS, Nginx

[Try Service](#)

## Education

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### National University of Singapore

Aug 2019 – Aug 2022

Bachelor of Computing (Honors) in Computer Science

- Graduated with Distinction, 4.29 GPA
- Database Systems, Computer Networks, Information Security, AI