

Eric Yap Wei Lok

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SUMMARY

- B. Eng graduate with a strong academic background in Software Development, as well as minor knowledge in Networks, Cybersecurity and Machine Learning
 - Working experience with Golang, as well as technical interface designs, system architecture etc.
 - Ability to think through problems and learn new technologies quickly
 - Comfortable with working in both team and self-directed settings
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EDUCATION

Singapore University of Technology & Design (SUTD) | May. 2016 – Dec. 2019 | Singapore

Bachelor of Engineering, Information Systems Technology and Design

WORK EXPERIENCE

Continental Automotive | May. 2018 – Sep. 2018 | Singapore

Cybersecurity Research Intern Singapore

- Researched on automotive electrical control unit (ECU) bootloader security
- Proposed new ECU secure boot protocol, which was patented by the company
- Presented proof-of-concept written in C to Continental engineers around the world via video conference

Shopee | Feb. 2020 – Current | Singapore

Senior Software Engineer Singapore

- Backend software engineer and developer PIC for multiple microservices
 - Designed microservice for consolidating and serving order detail information with 1000s of QPS (Go, GRPC, Redis)
 - Golang concurrency patterns for fetching information from multiple APIs quickly
 - Designed asynchronous system for automatic cancellation of orders (Go, GRPC, Redis, Kafka)
 - Redis for request deduplication and distributed locks to ensure orders are not processed again and in-house scheduling system for scheduling cancellation
 - Migrated service that coordinates changing of order payment method (Go, GRPC)
 - Worked on tipping subsystem that allows buyers to tip delivery drivers (Go, GRPC)
 - Currently working on refund and order payment entities (Go, GRPC, MySQL, Kafka etc.)
 - Designing event-driven systems and transactional outbox framework
 - Designing data models, new state machines etc. for aforementioned entities
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TECHNICAL SKILLS

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|---|---|
| • Programming Languages – Go, Python | • Messaging – Kafka |
| • Backend – GRPC, Django | • DevOps – Gitlab CI |
| • Database – MySQL, TiDB | • Monitoring – Prometheus, Grafana |
| • Cache – Redis | • Others – Git, Bash, Linux, LaTeX |