

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 and Python, 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

EDUCATION

Singapore University of Technology & Design (SUTD)

May. 2016 – Dec. 2019

Bachelor of Engineering, Information Systems Technology and Design

Singapore

WORK EXPERIENCE

Continental Automotive

May. 2018 – Sep. 2018

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

Senior Software Engineer

Singapore

- Backend software engineer and developer PIC for multiple microservices
- Designed microservice for consolidating order detail information and serving said information to frontend teams with 1000s of QPS
 - Written in Golang and in-house API protocol based on GRPC
 - Uses Golang concurrency patterns for fetching information from multiple APIs quickly
- Designed asynchronous system for automatic cancellation of orders
 - Written in Golang and uses in-house scheduling system based on Kafka
 - Uses Redis for request deduplication and distributed locks to ensure orders are not processed again
- Migrated intermediary service that coordinates changing of order payment method
 - Written in Golang and in-house API protocol based on GRPC
- Worked on tipping subsystem that allows buyers to tip delivery drivers
 - Written in Golang and in-house API protocol based on GRPC
- Currently working on refund and order payment entities
 - Designing event-driven systems e.g. consuming events from Kafka and propagating side effects
 - Designing transactional outbox framework for refund and order payment

TECHNICAL SKILLS

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|---|---|
| ▪ Programming Languages – Golang, Python | ▪ DevOps – Gitlab CI |
| ▪ Backend – Django, GRPC | ▪ Monitoring – Prometheus, Grafana |
| ▪ Database – MySQL, TiDB | ▪ Others – Git, Bash, Linux, LaTeX |