

# 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*

- Relevant courses: Software Development, Networking, Cybersecurity, Machine Learning, Blockchain
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## 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
    - Coordinating large scale data migration across database
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## TECHNICAL SKILLS

Go, GRPC, MySQL, TiDB, ElasticSearch, Redis, Kafka, Gitlab CI, Docker, Prometheus, Grafana, Git, Technical Design, Microservices