Eric Yap Wei Lok

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SUMMARY

- B. Eng graduate with a strong academic background in Software Engineering
- Professional experience with distributed systems architecture, technical designs, SOLID principles etc.
- Self-directed and able to think through problems, learn new technologies quickly

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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 Engineering, Networking, Cybersecurity, Machine Learning, Blockchain

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WORK EXPERIENCE

Shopee | Feb. 2020 – Present | Singapore

Senior Software Engineer (Jan 2022 - Present)

- Lowered P95 latency of refund creation from >800ms to <200ms, as well as latency of other refund operations, by designing a transactional outbox event-driven system that enables high consistency and high messaging throughput
- Enabled the team to incorporate new order-payment types more easily, by designing and developing brand new order-payment entities (including data models, state machines etc.) to facilitate the ever-changing order-payment requirements in Shopee
- Coordinated large scale data splitting and migration from entities owned by other teams into the aforementioned order-payment entities
- Resolved data consistency issue in tipping subsystem that prevented thousands of delivery drivers from receiving their tip, by coordinating with Shopee payment gateway team to develop
- Mentored several new hires for their first few months through entry tasks and familiarization of our team's development practices and lifecycle

Software Engineer (Feb. 2020 - Dec 2021)

- Improved user experience by lowering P95 latency of Shopee's Order Details Page (ODP) from >1s to <600ms using Go concurrency patterns with goroutines and single flight API retrieval, enabling us to serve more requests with less resources
- Streamlined and compartmentalized the code architecture of ODP to enable faster development
- Lowered processing times of automatic cancellation of unfulfilled orders from >10 hours to <1 hour by designing an asynchronous cancellation system

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

Cybersecurity Research Intern

- Researched on automotive electrical control unit (ECU) bootloader security and developed PoC
- Proposed new ECU secure boot protocol, which was patented by the company

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TECHNICAL SKILLS

Professional: Go, Python, gRPC, MySQL, ElasticSearch, Redis, Kafka, Gitlab CI, Git, Docker, Prometheus, Grafana, Technical Design, Microservices, Distributed Systems

Hobbyist: Rust, Postgres, TypeScript, Svelte, TailwindCSS, Solidity, Solana, Blockchain