

Featured Portfolio

<https://mettyoung.com/railway-routing-service/>
Created a containerized web app for suggesting railway routes to travelers in Singapore.

Technical Summary

Architecture	DDD, CQRS, Hexagonal Architecture, Monolithic, Microservice
Back-end	Spring Boot, REST, Thrift, MySQL, Postgres, MongoDB, Redis, Elasticsearch, Clickhouse, RocketMQ, Kafka, JUnit, Spock, Cucumber, JMeter, Taurus
Front-end	ReactJS, Ant Design, Redux
DevOps	Liquibase, Maven, Gradle, Docker, Nexus Artifactory, Kubernetes, Ansible, TeamCity, Jenkins, ELK, Prometheus, Open Tracing

Employment

Staff Software Engineer (CRM)	Tiktok Pte. Ltd.	Sep 2021 – Present
<ul style="list-style-type: none">Kickstarted a microservice from scratch, implemented Hexagonal architecture, and onboarded the team to launch sales planning MVP for the METAP region within 6 weeks.Started the project with horizontal slices for smoother onboarding, then repackaged it into vertical slices to enhance code maintainability.Established CQRS architecture to support global product rollout by building the data ingestion flow for Elasticsearch and Clickhouse as time-series query model.Kickstarted sales forecasting project to deliver an MVP to the US and METAP regions within 6 weeks, involving cross-regional effort where I onboarded 3 engineers.Overhauled plan & forecast by contributing 54% (10117/18709) lines of code in 3 weeks to accommodate monthly, bimonthly and quarter cadence due to reorganization.Crafted a lightweight test fixture utilizing DI to centralize mocks, streamlining UT cost, and improving development experience.Established coding standards by introducing checkstyle to CI pipeline.Resolved a 2019 issue, cutting department costs by reducing application startup time by 80 seconds, saving 2 hours (100 engineers) per build.Initiated backend technical retrospective to regulate technical debts and keeping architecture in check.		

Engineer Lead	Rakuten Asia Pte. Ltd.	Jun 2021 – Sep 2021
<ul style="list-style-type: none">Onboarded and mentored 3 backend engineers to full-stack development.Led one software release without any deployment issues.		

Software Engineer	Rakuten Asia Pte. Ltd.	Aug 2019 – May 2021
<ul style="list-style-type: none">Designed and presented the architecture to achieve eventual consistency between two databases to the architecture review team (Outbox Pattern, Kafka).Implemented 6 API endpoints using outside-in TDD where PR was approved with zero revisions and no bugs reported (Spring Boot, Cucumber, JUnit5).Wrote our team’s test framework alone, inspired by outside-in TDD, to address the substandard test code quality, improving test suite performance by 600%.Setup two microservices with CI/CD pipelines for the team to kickstart parallel development work (Spring Boot, Jenkins).Discovered and fixed API performance issues through load testing (JMeter, Taurus).Presented in engineering meetings (Kafka Connect, React Hooks, Test Framework).Reduced 10-15% bugs before QA starts through my meticulous code reviews (Awarded).Designed and implemented an ad creative review screen using ReactJS and Redux.		

Software Engineer II	Exist Software Labs	Feb 2019 – Jun 2019
Software Engineer I	Exist Software Labs	Aug 2017 – Jan 2019
Freelance Software Engineer	Nelsoft Systems, Inc.	Sep 2016 – Apr 2017
Software Engineer I	Nelsoft Systems, Inc.	Feb 2015 – Jan 2016

Education Background

Computer Engineering	De La Salle University Manila	May 2010 – Dec 2014
<ul style="list-style-type: none">Graduated with honorable mention having a CGPA of 3.203.Designed and implemented telemetry system for Shell Eco Marathon Asia in 2014.Developed autonomous exploration of two quadrotors for undergraduate thesis.		