

Emmett N. Young

Staff Software Engineer

Contact Information
Singapore
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Featured Portfolio

<https://mettyoung.com/railway-routing-service/>

Developed a containerized web application that provides a facility to suggest railway routes for the bewildered traveler in Singapore.

Technical Summary

Architecture	DDD, CQRS, Hexagonal Architecture, Microservices
Back-end	Java (Spring Boot), API (REST, Thrift), NoSQL (MongoDB, Elasticsearch), RDBMS (MySQL, Postgres), Queues (RocketMQ, Kafka), Unit Test (JUnit, Spock), Performance Test (JMeter, Taurus)
Front-end	ReactJS, Ant Design, Redux
DevOps	Liquibase, Maven, Gradle, Docker, Ansible, TeamCity, Jenkins, Kubernetes

Employment

Staff Software Engineer (CRM)	ByteDance (Tiktok) Pte. Ltd.	Sep 2021 – Present
<ul style="list-style-type: none">Initialized a 0-1 microservice using Hexagonal architecture in order to deliver bottom-up sales planning MVP to METAP region within 6 weeks (MQ, SQL, BI).Upgraded to CQRS architecture for better product support by single-handedly implemented the Elasticsearch data ingestion flow as time-series query model.Initialized sales forecasting project with scaffoldings to deliver MVP to US and METAP in 6 weeks (solo: +~4k lines, team: onboarded and coordinated 3 engineers)Resolved a 2019 problem and reduced department-wide cost by improving application startup time by 80s; saving 2 hours (100 engineers) for every build.Overhauled plan & forecast by contributing 54% (10117/18709) lines of code in 3 weeks to accommodate monthly, bimonthly and quarter cadence due to reorganization.Initiated monthly backend technical retrospective to regulate technical debts and keeping architecture in check.Top BE contributor, consistently exceeding expectations. Code: 34190/86614 (39%); Java: 20452/59162 (34%); Commits: 232 (1st); Features: 62 (2nd)		
Engineer Lead	Rakuten Asia Pte. Ltd.	Jun 2021 – Sep 2021
<ul style="list-style-type: none">Increased the UI development resources from 2 to 5 by gradually involving and mentoring junior engineers while still meeting the project schedule.Eliminated delays from the development team by defining clear scope and dependencies for every task and prioritizing based on release schedule.Led one software release without any deployment issues in itself.Performed API and UI code reviews for all development tasks in the team.		
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 Redu		
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.		