

Emmett N. Young

Full Stack Engineer

Contact Information

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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. Visit the link for a live demo!

Technical Summary

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|--------------|---|
| Architecture | Hexagonal Architecture, CQRS, Microservices, DDD |
| 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

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| Senior Software Engineer | ByteDance (Tiktok) Pte. Ltd. | Sep 2021 – Present |
| <ul style="list-style-type: none">Initialized project structure of 0-1 sales planning microservice using Hexagonal architecture by adding REST, MQ, Thrift, Task adapters and Spring Data JPA.Overhauled sales planning into CQRS architecture to support higher read throughput by pre-computing the metrics into Elasticsearch.Introduced Spock Framework, Spring Data JPA, QueryDSL to project’s tech stack.Conducted tech talks on Clean Architecture, Spock Framework and app architecture.Initiated monthly backend technical retrospective to identify technical debts and improvements and setting goal items. | | |
| 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 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

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| 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. | | |