Emmett N. Young

Full Stack Engineer

Contact Information

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# Featured Portfolio

🌐 <https://github.com/mettyoung/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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| **Back-end** | Java, JUnit 4/5, Spring Boot, REST, Bean Validation, JPA/Hibernate, MySQL, Postgres, MongoDB, Kafka Connect, Elasticsearch, Kubernetes, Microservices |
| **Front-end** | Javascript, Typescript, React, Ant Design, Redux, Angular 1/6, HTML5, CSS3 |
| **DevOps** | Git, Liquibase, Maven, Gradle, Docker, Ansible, TeamCity, Jenkins |

# Employment

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| **Software Engineer** | **Rakuten Asia Pte. Ltd.** | **Aug 2019 – Present** |

* Designed and presented the architecture to achieve eventual consistency between the new and legacy systems to architecture review team (Outbox Pattern, Kafka).
* Implemented 6 feature 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 which also improved test suite performance by 600%.
* Setup two microservices with CI/CD pipelines for the team to kickstart parallel development work (Spring Boot, Jenkins).
* Determined and fixed API performance issues as reflected in load testing (JMeter).
* Presented various topics for engineering meetings (MongoDB Kafka Connect, React Hooks, Own Test Framework).
* Reduced 10-15% bugs before QA starts through great code review approach (Awarded).
* Designed and implemented creative review screen using ReactJS and Redux.
* Onboarded and mentored two engineers who can now work independently.
* Led technical grooming discussions to have clearer scope for effective planning.

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| **Software Engineer II** | **Exist Software Labs** | **Feb 2019 – June 2019** |

* Prevented a regression in accommodating a high-risk and critical enhancement using test-driven development. (NiFi, Kafka, Spring Boot, JUnit5 and Hibernate)
* Took ownership of data provision and subscription projects until their completion.
* Managed servers by deploying and setting up multiple infrastructures such as NiFi, Kafka, Zookeeper clusters, SFTP, MySQL servers and containerized web application.

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| **Software Engineer I** | **Exist Software Labs** | **Aug 2017 – Jan 2019** |

* Completed code camp which includes Java, Maven, Hibernate, Spring and AngularJS.
* Conducted technical workshop on Apache NiFi to the client with an audience of 20.
* Developed an automated NiFi tester application which sped up QA testing (Spring Boot, CSV, xUnit framework).
* Developed an infrastructure code for elasticsearch using domain events, thereby decoupling technical code from business logic and reducing code duplications.
* Developed for data forecasting with basic ticketing project. (Angular 6, Spring)
* Mentored a new teammate to get him up and ready for the team.

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| **Freelance Software Engineer** | **Nelsoft Systems, Inc.** | **Sept 2016 – April 2017** |

* Rewrote proprietary database synchronization system using TDD, resulting to at least 200% faster synchronization rate and no major bugs (PHP, C#).

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| **Software Engineer I** | **Nelsoft Systems, Inc.** | **Feb 2015 – Jan 2016** |

* Developed proprietary automated deployment application (C#).
* Led a team of 3 developers and 1 designer for inventory system project (PHP).

# Education Background

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| **Computer Engineering** | **De La Salle University Manila** | **May 2010 – Feb 2015** |

* 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.