# Si Kai NG

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Ruby on Rails, Spring Boot, Ruby, Java, Kotlin, Python, PostgreSQL, Redis, Sidekiq, Kafka, Docker, Kubernetes, Heroku, AWS, JavaScript, GraphQL, Linux, Git, Splunk, Wavefront

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## *Professional Experience*

**Intuit Inc**, *Senior Software Engineer, Singapore*                    *Sep 2020 – Present*
- Led migration project which involved Dockerization of Rails application, re-writing deployment architecture from Heroku to Kubernetes and coordination of customer communications – enabling a seamless transition for customers from pre- and post-acquisition.
- Led and grew a team of engineers in maintaining an Image Processing service that serves all QuickBooks Online customers, accomplishing initiatives like error reduction by 80% and improved precision rate of fraud detection functionality.
- Designed and implemented Role-based access control feature on both React frontend and Spring Boot backend for Inventory Management service, which is part of a distributed micro-services architecture – ensuring that all QuickBooks customers have a consistent experience throughout technical architecture modernization.

**TradeGecko**, *Software Engineer, Singapore*                    *Jul 2018 – Sep 2020*
- Re-architected user on-boarding flow, leading to 15% reduction in average platform set-up time, and created data pipelines from sign-up UI to Hubspot and Salesforce, providing revenue teams with customer profile data for user analytics.
- Championed internal Backend Chapter meetings to tackle flaky tests and testing infrastructure upgrades, improving developer productivity and decreasing time taken to ship code to customer.
- Grew capabilities of downstream reporting applications to provide additional value and increase stickiness for existing users. Identified performance bottlenecks in report generation API, reducing session load on DB by a factor of 3.
- Implemented key strategies such as database Read Replica and Count Cache in preparation for Black Friday where peak hourly traffic grew 42% year on year.

**GovTech Singapore**, *Software Engineering Intern, Singapore*                    *Dec 2017 – Jan 2018*
- Worked on Electron application that acted as front end interface of HATS, an open source testing automation tool based on the ROBOT testing framework.
- Refactored back-end Node.js code that interfaced with BASH and Powershell to ensure 100% success rate in parallel runs of test suites.

**LeanData Inc**, *Software Engineering Intern, Sunnyvale CA*                    *Aug 2016 – Jul 2017*
- Built an interactive Salesforce application with graphing capabilities using Backbone, JointJS and jQuery.
- Designed database schema and implemented in-house log processing system with Ruby on Rails to reduce operations workload by 50%.
- Modularised legacy code and adopted Webpack, decreasing number of HTTP requests on page load from 70 to 2.

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## *Education*

**National University of Singapore (NUS)**                    *Aug 2014 – May 2018*
Bachelor of Computing (Honors) in Computer Science (GPA 4.33)

**Stanford University**                    *Aug 2016 – July 2017*
Management Science and Engineering

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