Si Kai NG

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Ruby, Ruby on Rails, Java, SQL, Heroku, JavaScript, Ember.js, HTML, CSS

Professional Experience

TradeGecko, *Software Engineer, Singapore*   *Jul 2018 – Present*

- o **Manufacturing:** Built Rails-backed service that encapsulated manufacturing workflows for end-users and developers. Created internal DSL to manage complex update validations on ActiveRecord ORM.
- o **On-boarding:** Implemented A/B experiments with Vanity gem to reduce time taken to set up a new account. Re-architected API for on-boarding steps and streamlined data syncs from server to Hubspot and Salesforce.
- o **Reporting:** Built new invoice and fulfillment reports which are DB views that draw data from existing ETL infrastructure hosted on AWS. Worked with tools like RDS Performance Insights to identify performance bottlenecks.

GovTech Singapore, *Software Engineering Intern, Singapore*   *Dec 2017 – Jan 2018*

- o **HATS Frontend:** Worked on Electron application that acted as front end interface of HATS, an open source testing automation tool based on the ROBOT testing framework.
- o **HATS Core:** 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*

- o **Flow Builder:** Built an interactive Salesforce application with graphing capabilities using Backbone, JointJS and jQuery.
- o **Log Processing:** Designed database schema and implemented in-house log processing system with Ruby on Rails to reduce operations workload by 50%.
- o **Front-end systems:** Modularised legacy code and adopted Webpack, decreasing number of HTTP requests on page load from 70 to 2.

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

Leadership Experience

President of TCrew, Tembusu Residential College Dance Group

- Successfully trained and coordinated a dance routine for 28 dancers, representing Tembusu College and NUS in a performance for NUS Open Day 2015.

Deputy Director of Academic Liaison Cell, NUS Computing Club

- Bridged communication between the student body and faculty for matters pertaining to academic welfare.
- Held introductory workshops on Java and Unix during winter break of 2014.

Past Projects

Pear

- Pear is a matchmaking application that runs on Web, Android and iOS. Won Overall 2nd place for 11th STEPS in NUS. Assumed a full-stack role building the chat functionality from UI to Database using Vue.js and Node.js.

Quack

- Quack is a location-based chat application built as a Progressive Web Application using Vue.js and achieved a Lighthouse score of over 90. Responsible for building front-end ensuring responsive design and fast load time.