

Si Kai NG

sikai.ngsk@gmail.com

<https://github.com/ngsikai>

+65 9831 0024

Java, Salesforce APEX, Python, Javascript, Express, MySQL, HTML, CSS, Vue.js, UNIX, DevTools, Haskell, PL

Professional Experience

GovTech Singapore, Software Engineering Intern, Singapore

Dec 2017 – Jan 2018

- Refactored back-end node.js code that interfaced with BASH and Powershell to ensure 100% success rate in parallel runs of test suites.
- Worked on an Electron application that acted as the front end interface of HATS, an open source testing automation tool based on the ROBOT testing framework.

National University of Singapore, Undergraduate Teaching Assistant, Singapore

Aug 2017 – Dec 2017

- Worked with Professor Damith C Rajapakse on CS2103 Software Engineering module, reviewing student pull requests.
- Led weekly tutorial classes on Java focusing on concepts such as Design Patterns and Agile Workflow.

LeanData Inc, Software Engineering Intern, Sunnyvale CA

Aug 2016 – Jul 2017

- Built an interactive web application with graphing capabilities on Salesforce using Backbone, JointJS and jQuery.
- Designed database schema and implemented in-house email 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.

DSO National Laboratories, Software Engineering Intern, Singapore

May 2016 – Jul 2016

- Designed and implemented a retrieval system for high resolution video files using Apache Solr.
 - Made use of PyQt to create a platform-independent GUI for operators to perform indexing.
-

Education

National University of Singapore (NUS)

Aug 2014 – Current

Bachelor of Computing in Computer Science (CAP 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 the winter break of 2014.
-

Past Projects

Pear

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

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. Took charge of whole front-end ensuring responsive design and fast load time.
-