# JERALD YIK JIA LER

EMAIL: jeraldvik12@gmail.com | LinkedIn: https://www.linkedin.com/in/jerald-vik-jia-ler-203448191/ | Website: https://jeraldvik.github.io | HP: +65 9830 9067

#### **EDUCATION**

#### Nanyang Technological University (NTU), Singapore – Renaissance Engineering Programme (REP)

Aug 2017 - Present

- Inter-disciplinary Engineering Education, integrating Engineering, Science, Business, Technology Management & Humanities.
- B.Eng.Sci (with Hons), specializing in Computer Science (GPA 4.83/5.0, 1st Class).
- MSc in Technology Management.
- Received Renaissance Engineering Programme Scholarship, awarded to cream of the crop in the cohort.
- Expected Graduation Date: Dec 2021.
- Relevant Courses taken: CZ 2002 Object-Oriented Design & Programming, CE 2005 Operating Systems, EE 6108 Computer Networks, CZ 4062 Computer Security, CZ 4153 Blockchain Technologies.
- Relevant Courses taking this semester: CZ4013 Distributed Systems, CZ4067 Software Security

# University of California, Berkeley (Exchange Programme)

Aug 2019 – May 2020

- Bachelor of Computer Science. Concurrent with REP during 3<sup>rd</sup> year of studies (GPA 3.486/4.0).
- Relevant Courses taken: CS 170 Efficient Algorithms & Intractable Problems, CS 188 Introduction to Artificial Intelligence,
  CS 186 Introduction to Database Systems, INFO 159 Natural Language Processing.

### Victoria Junior College, Singapore

Jan 2013 - Dec 2014

• Graduated with UAS of 87.5/90, with a Distinction in H3 Physics.

#### **WORK EXPERIENCE**

## GovTech, Singapore - Full-Stack Software Development Intern

May 2020 - Nov 2020

- Concentrated on Next.js for front-end & Koa.js for back-end implementation, while utilising AWS as infrastructure.
- Spearheaded research spike and implementation on the transition of an overhaul of rendering of content, which requires content to be dynamically rendered in the 4 major languages based on language chosen.
- Explored Content Management System (CMS) to facilitate seamless integration of translation content and ease of input & change of content by content creators.

## Rushowl Pte Ltd, Singapore - Data Analyst Intern

Jun 2019 - Aug 2019

- Established data collection & analysis infrastructure using InfluxDB, Chronograf, OSRM API to estimate elapsed time between bus stops.
- Established data visualization platform using React to deliver to clients a pictorial understanding of statistics of above.
- Configured commercially-viable GSM/GPS module using Raspberry Pi to track live location of buses & send live data to server.

# **AWARDS AND ACHIEVEMENTS**

## Yitu Hack-Ai-Thon, Singapore – Finalist (5/100+ teams)

Feb 2019

 Achieved 5th place out of 100-odd teams in an image detection model improvement competition by making discerning decisions on which ML models to use and undergoing rigorous quick-searching & trial-and-tested methods.

### **PROJECTS**

# End-to-End Webpage, Personal Project (Website: http://bit.ly/2XR9tyd, Github Page: http://bit.ly/39vu40f)

Dec 2020 - Present

Provides an interactive interface (with customisable filter options) to output nearby eateries, with login and favouriting functionalities.

## Renaissance Capstone Project, Nanyang Technological University

Jun 2020 - Present

- Embarked on a Final Year Project, exploring on the topic of Differential Privacy, on a Convolutional Neutral Network that utilises peer-topeer Federated Learning for training.
- Completed Interim Presentation to a panel of course heads.

# Telegram Bot, Personal Project (Website: <a href="https://bit.ly/39uTaMD">https://bit.ly/39uTaMD</a>, Github Page: <a href="http://bit.ly/3i9S0Ku">http://bit.ly/3i9S0Ku</a>)

Dec 2020

Includes functionalities to convenience everyday life (e.g. utilise Google Maps Places API to query and parse nearby eateries).

## CodeIT Credit Suisse, Singapore

Sep 2018, Sep 2020

- Passed the intensive preliminary test among thousands of applicants by clearing coding challenges under time limit.
- Achieved top 20 by spending the full 27 hours of non-stop rigorous coding to clear challenges.

# Data Science Society, University of California, Berkeley

Sep 2019 - Dec 2019

Delivered a presentation at Research Symposium to a 1000-strong audience after semester-long critical analyses of large datasets.

# SecondLife, Android Application, Nanyang Technological University (Github Page: <a href="http://bit.ly/3oJRxRR">http://bit.ly/3oJRxRR</a>)

Sept 2018 - Dec 2018

Attained an A and top ranking a group by presenting on an Android Application as main deliverable for a school module.

#### **SKILLS**

- Programming: Javascript, Python, Typescript, React.js, Next.js, SQL, Java.
- Soft skills: Leadership, Presentation skills, Good team player, Passionate & Enthusiastic to learn new skills, Not afraid to make mistakes, Accepting of people from racially-diverse background