

Tan De Ning, Klement

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WORK EXPERIENCE

GOOGLE | GPAY CLIENT INFRA | SOFTWARE ENGINEERING INTERN

May 2021 - Aug 2021 | Singapore

- Decreased the time taken to detect accessibility issues by **95%** through the integration of an automated crawler that detects accessibility issues.
- Led project from end to end by designing the architecture, implementing code, and developing processes for other teams to incorporate the tool into their workflow.
- Tech Stack: **Flutter** • **Bazel** • **Java**

NINJA VAN | SOFTWARE ENGINEERING INTERN

Dec 2020 - May 2021 | Singapore

- Oversaw the design and implementation of a search service that aggregates data from different multiple micro-services.
- Accomplished scalability by leveraging the asynchronous event-based system.
- Tech Stack: **Play Framework** • **MySQL** • **Kafka** • **Protocol Buffer**

ALTONOMY | SOFTWARE ENGINEERING INTERN

May 2020 - Aug 2020 | Singapore

- Spearheaded Software Testing and achieved **97%** test coverage.
- Drive Test-Driven Development by abstracting out low-level details, and implementing continuous integration, Git hooks, and coverage reports.
- Tech Stack: **FastApi** • **React** • **InfluxDB** • **MySQL** • **Locust**

XFERS | SOFTWARE ENGINEERING INTERN

May 2019 - Nov 2019 | Singapore and Indonesia - NUS Overseas College

- Led the creation of an API documentation generator that reduces discrepancies in content and decreases client integration time by **50%**. **BLOG POST**
- Initiated and led the implementation of customized error codes that reduce the time taken to identify bugs by **80%**.
- Tech Stack: **Ruby on Rails** • **React** • **Open API Specification**

PROJECTS

BITCOIN CORE | GITHUB.COM/BITCOIN/BITCOIN

- Improved user experience of `-getinfo` CLI command; revamped the return format to include colours and progress bar. PRs: #21832 #22547
- Executed quality assurance testing and code review on various other contributors' pull requests.
- Tech Stack: **c++**

SPEECH TO TEXT RESUME BUILDER | DEVELOPER STUDENT CLUB

VANTAGE SG - TECH LEAD

- Led a team of 4 software engineers to develop a speech to text resume builder that aims to help less-educated youths secure jobs that match their talents.

COVID-19 TRAVEL RESTRICTION GUIDE | TRAVELNOGO.COM

- Helped over 1,000 users to navigate through enormous COVID-19 travel restrictions by scraping and consolidating data from reliable sources.

TYPE-1 DIABETES TECH GUIDE | TYPE1WHO.COM

- Worked with a Type-1 diabetic individual to build an online guide to promote continuous glucose monitoring and latest type-1 diabetes technologies.

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE | DOUBLE DEGREE PROGRAMME

Aug 2018 | May 2022

BACHELOR OF COMPUTING, COMPUTER SCIENCE

CAP: 4.10

BACHELOR OF SCIENCE, MAJOR IN APPLIED MATHEMATICS

CAP: 3.84

NATIONAL JUNIOR COLLEGE

GCE 'A' LEVEL | 4 DISTINCTIONS

Mar 2014 | Dec 2015

NOTABLE COURSEWORK

Software Engineering
Design and Analysis of Algorithm
Linear and Network Optimisation
Database Systems

ACHIEVEMENTS

HACKERTHON

Facebook Singapore Hack 2021 | 1st Place

OPEN SOURCE CONTRIBUTIONS

42Crunch/vscode-openapi: #126

COMPETITIVE PROGRAMMING

2020 Kickstart Round G | 1028th
2019 Kickstart Round G | 1020th

SKILLS

TECHNICAL SKILLS

Language

C++ • Java • Bazel • Dart • Ruby • Python • Javascript • Bash

Framework / Services / Tools

Flutter • Hazelcast • Kafka • Play • Ruby on Rails • FastApi • React • Docker • pytest • firebase • Python Web scrapper • Locust • MySQL/PostgresSQL • CircleCI • Gitlab CI • Coveralls • Git

SOFT SKILLS

Project Management • Agile • Leadership