Julius Putra Tanu Setiaji

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Education

National University of Singapore *Singapore*

YEAR 1 UNDERGRADUATE, BACHELOR OF COMPUTING (COMPUTER SCIENCE), HONOURS *Aug 2017 - May 2021 (expected)*

- Current CAP (Cumulative Average Points): 4.68 out of 5.00
- Coursework: Programming Methodology / Structure and Interpretation of Computer Programs, Linear Algebra, Discrete Mathematics, Calculus.

St. Andrew's Junior College *Singapore*

SINGAPORE-CAMBRIDGE GCE 'A' LEVELS *Jan 2016 - Dec 2017*

- Achieved straight A's in H2 Physics, H2 Mathematics, H2 Chemistry, H2 Economics and H1 General Paper, and Distinction in H3 Mathematics.
- Held positions as Assistant Student Conductor and Bass Section Leader in Saints Chorale.
- Completed under full scholarship.

Technical Skills

Experienced JavaScript, C, PHP, HTML, CSS, Bash, Ubuntu-based Linux, Visual Basic
Familiar C++, SQL, Python, Ruby, Ruby on Rails, NodeJS, Git, OpenWRT
Learning Java, Elixir, Phoenix Framework, TypeScript, React, Redux, LaTeX, Hugo
GIS Caliper Maptitude, ArcGIS

Experience

PT. Cardno Indonesia / Asian Development Bank *Jakarta, Indonesia*

ASSISTANT ENGINEER *Dec 2016 - Jul 2017*

- Learnt Geographical Information System (GIS) and generated thematic maps of different ports based on its hinterland potential.
- Synthesised data from various sources, did a spreadsheet analysis and write-up according to requirements set by expert engineers.

Projects

NUS Student Union Committee for IT Duty Website *(http://github.com/commit-tech/takoyaki/)*

DEVELOPER (RUBY ON RAILS, BOOTSTRAP) *Jan 2017 - PRESENT*

- Rewriting from PHP to Ruby on Rails the duty website used to track and manage computer lab supervisor duty.
- Redesigned and implemented the duty timetable interface with mobile-first principle to make it responsive and easier to read.
- Set up and wrote tests for models.

NUSIVLEBot *(http://github.com/indocomsoft/NUSIVLEBot/)*

DEVELOPER (NODE.JS, MONGODB) *Feb 2017 - PRESENT*

- Wrote a Telegram Bot to send push notification when a new announcement is made on the NUS Learning Management System website.
- Currently has a total of 109 users. You can try it at https://t.me/NUSIVLEBot

Source Academy *(https://github.com/source-academy/)* *Singapore*

DEVELOPER (ELIXIR, PHOENIX FRAMEWORK, TYPESCRIPT, REACT, REDUX) *Jan 2018 - PRESENT*

- Ironing out bugs in the back-end of the website and interpreter engine of The Source (a subset of Javascript focussing on its functional programming paradigm), the language used in CS1101S, a module based on MIT 8.001 course and the famous SICP book.
- Migrating the back-end from Elixir 1.4 .

Wi-Fi Extender and Load-balancer *(https://github.com/indocomsoft/Maker-Portfolio)* *Singapore*

BUILDER AND DEVELOPER (OPENWRT, SHELL SCRIPT) *Jan 2016 - Oct 2016*

- Built a system using Wi-Fi routers connected via powerline adaptors to extend coverage, but one Wi-Fi router is used as a load-balancer, utilising several other Wi-Fi routers to obtain higher speed on a Wi-Fi network with per-device speed limit.
- Wrote a shell script for monitoring and generating traffic so as not to be logged out from the captive portal. Also wrote a script to parallelise rsync and downloads. More details available on the link above.

Extracurricular Activity

NUS Hackers *Singapore*

CORETEAM MEMBER *Nov 2017 - PRESENT*

- Organising **Friday Hacks**, weekly Friday meetups which include one or two technical talks with speakers from the industry or academia.
- Helped organising **Hack & Roll**, Singapore's largest student-run hackathon.
- Teaching JavaScript in **Hackerschool** hacking workshop.

Awards

2016	**Bronze Medallist,**	Singapore 19th National Olympiad in Informatics	*Singapore*
2016	**Grace Ballas Scholarship,**	St. Andrew's Junior College Scholarships	*Singapore*
2017	**Scholar,**	ASEAN Undergraduate Merit Scholarship	*Singapore*