

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
- Intended focus area: Software Engineering, Information Security
- Coursework: Programming Methodology, Linear Algebra, Calculus, Discrete Mathematics

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, 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

MyToDo (<https://github.com/indocomsoft/cvwo-assignment-2017>)

DEVELOPER (RUBY ON RAILS, BOOTSTRAP, JQUERY)

Dec 2017 - PRESENT

- Developed a mobile-optimised To-Do List web application, complete with search function and categorisation.
- Set up automated CircleCI build, Coveralls code coverage, and CodeClimate maintainability assessment, and deployed on Heroku.
- Linted with rubocop, testing with rspec with coverage at 92% and 8.41 hits/line, grade A for maintainability from CodeClimate.

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.
- Developing new features for the website, including collaborative editing for its IDE and debugger for its interpreter engine.

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.

NUS Student Union Committee for Information Technology

Singapore

TECHNICAL CELL MEMBER

Aug 2017 - PRESENT

- Documented procedure to rapidly image computers from a lab and deploy it on another lab using a FOSS solution (Clonezilla).
- Gained expertise in web development, especially in Ruby on Rails, to rewrite the internal CCA website.
- Helped planning and taught in Cyberia Camp, a 3-day camp teaching Adobe Photoshop as Training Sub-committee.

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