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 maintanability assessment, and deployed on Heroku.
- Linted with rubocop, testing with rspec with coverage at 92% and 8.41 hits/line, grade A for maintanability from CodeClimate.

Source Academy   *Singapore*

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

- Ironing out bugs in the 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 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 from one point to the other, but one Wi-Fi router is used as a load-balancer, utilising several other Wi-Fi routers in order to obtain higher speed on a Wi-Fi network with per-device speed limit.
- Wrote a shell script for monitoring and to generate 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*