

# 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, Ruby, Ruby on Rails, PHP, HTML, CSS, Bash, Ubuntu-based Linux, Visual Basic

**Familiar** Elixir, Phoenix Framework, C++, Java, SQL, Python, NodeJS, Git, OpenWRT

**Learning** TypeScript, React, Redux, ~~TeX~~ 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 - Jan 2017

- 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 100% code coverage and 9.73 hits/line, grade A for maintainability from CodeClimate.

### NUSIVLEBot (<http://github.com/indocomsoft/NUSIVLEBot/>)

[Singapore](#)

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 122 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 current version of the backend to Elixir 1.6 and Phoenix 1.3.

### 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](#)