Julius Putra Tanu Setiaji

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Education

National University of Singapore *Singapore*

Year 2 Undergraduate, Bachelor of Computing (Computer Science), Honours *Aug 2017 - May 2021 (expected)*

- Current CAP (Cumulative Average Points): 4.67 out of 5.00
- Coursework: Structure & Interpretation of Computer Programs, Linear Algebra, Discrete Mathematics, Calculus, Data Structures & Algorithms.

Technical Skills

Experienced   Swift, Elixir, Phoenix, JavaScript, C, Ruby, Ruby on Rails, HTML, CSS, Bash, Ubuntu-based Linux, Git
Familiar   Objective-C, React, Redux, C++, Java, SQL, Python, NodeJS, OpenWRT, Visual Basic, PHP
Learning   LaTeX, Hugo, Haskell

Experience

Garena Online Pte. Ltd. *Singapore*

iOS Software Engineering Intern (Swift, Objective-C, Functional Reactive Programming) *May 2018 - Aug 2018*

- Picked up Swift and iOS development, including Objective-C and Functional Reactive Programming without any prior background.
- Developed a log viewer app capable of handling 200,000 lines, extracting ZIP files, complete with syntax highlighting, as well as search and filter capabilities. It is also integrated the debugging menu of my team's product, SeaTalk.
- Analyzed and improved CoreData performance in the company's Instant Messaging application, SeaTalk, by adding prefetching to mitigate the $(n+1)$ query problem.

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

Backend Architect and Team Lead (Elixir, Phoenix, Ecto, AWS) *May 2018 - PRESENT*

- Maintaining and deploying the website on AWS during the course of the CS1101S module, including Practical Examination for 420 students.
- Managed a team of 4 people developing a scalable back-end of Source Academy, the website for NUS CS1101S course, including features such as distributing problem sets, collecting answers, comments on student codes, and auto-grading (on AWS Lambda serverless architecture)
- Designed the overall architecture of the system, including the database schema and API with input from the front-end team.
- Reviewed code submitted by team members. Documented the API interface using `swagger` and achieved 99% code coverage.

National University of Singapore *Singapore*

CS1101S Teaching Assistant (Functional Programming, Javascript) *Aug 2018 - PRESENT*

- Teaching a group of 8 freshmen on Programming Methodology, based on the Structure & Interpretation of Computer Programs (SICP) book.
- Preparing and proofreading assessments to be used in the course, especially on the topic of Streams.

Projects

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 156 users. You can try it at https://t.me/NUSIVLEBot

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*

- Organised **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, HTML and CSS in **Hackerschool** hacking workshop.

NUS Student Union Committee for Information Technology *Singapore*

Head of Technical Cell *Aug 2017 - PRESENT*

- Rewriting in Ruby on Rails the internal Co-Curricular Activity website used to track supervising duties and issue tracking system
- Documented procedure to rapidly image computers from a lab and deploy it on another lab using a FOSS solution (Clonezilla).
- 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*
2017	**Scholar**, ASEAN Undergraduate Merit Scholarship	*Singapore*