Herbert Ilhan Tanujaya

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Education

National University of Singapore *Singapore*

YEAR 2 STUDENT IN BACHELOR OF COMPUTING (COMPUTER SCIENCE), HONOURS *Aug. 2015 - Jun. 2019 (expected)*

- Semester 3 CAP: 4.47 out of 5
- Courses: Software Engineering on Modern Application Platforms, Design and Analysis of Algorithms, Introduction to Computer Security, Introduction to Programming Languages

Skills

Proficient In Ruby, Ruby on Rails, Java, HTML, CSS, Javascript
Familiar With Swift, React.js, SQL, Python, Django, C/C++, Scala, Bash
Languages English, Bahasa Indonesia, Chinese (intermediate)

Experience

Garena Labs Intern at Garena Online Pte. Ltd. *Singapore*

SERVER DEVELOPER INTERN *May. 2016 - Aug. 2016*

- Established a data aggregation system on Garena's real-time data to reduce time and memory usage of users' queries.
- Developed an API to assist programmers in obtaining results from the data aggregation system.
- Integrated failed notifications from game APIs and established a user interface which provides programmers these notifications.
- Assisted developers in creating a round-robin game tournament administration system.

Projects

Indonesian Online Math Contest Website (https://github.com/donjar/kontes-terbuka)

FULL-STACK DEVELOPER *Apr. 2016 - Present*

- Developed a math contest system on a Ruby on Rails–NGINX–Unicorn stack.
- Optimized complex database queries involving as many as six tables.
- Designed a mobile-friendly interface with a good user experience.
- Incorporated security features, such as sanitation of user inputs, authorization and authentication systems.

Hack&Roll Hackathon 2016 (http://devpost.com/software/hacknroll) *NUS, Singapore*

BACK-END DEVELOPER *Jan. 2016*

- Developed a program to automatically generate an NUS timetable in less than 24 hours.
- In charge of designing and implementing the algorithm to generate the timetables in Javascript.

Extracurricular Activity

NUS Students' Union Committee for Information Technology *NUS, Singapore*

TECHNICAL HEAD *Sep. 2015 - PRESENT*

- Maintained a web server consisting of a homepage using Wordpress CMS and an internal website written in PHP.
- Provided web development training to members on PHP and Ruby on Rails.

NUS Hackers (http://nushackers.org) *NUS, Singapore*

CORETEAM MEMBER *Dec. 2016 - PRESENT*

- Conducted a HTML/CSS workshop for around 100 participants.

NUS School of Computing *NUS, Singapore*

TUTOR FOR CS2020: DATA STRUCTURES AND ALGORITHMS (ACCELERATED) *Jan. 2017 - PRESENT*

- Currently teaching 11 students in the span of one semester.
- Prepared slides and extra problems for students, as well as marked their problem set solutions.

Awards

International Mathematical Olympiad *South Africa and Thailand*

BRONZE MEDALIST *2014, 2015*

- Won two bronze medals in the International Mathematical Olympiad, the most prestigious high school mathematical competition in the world.