Herbert Ilhan Tanujaya

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Education

National University of Singapore *Singapore*

YEAR 3 DOUBLE DEGREE STUDENT IN BACHELOR OF COMPUTING (COMPUTER SCIENCE), HONOURS AND BACHELOR OF
SCIENCE (MATHEMATICS), HONOURS *Aug 2015 - Jun 2020 (expected)*

- Current CAP: 4.50 out of 5 (3.60 out of 4)
- Relevant Courses: Advanced Software Engineering, Combinatorial and Graph Algorithms, Complex Analysis, Probabilistic Combinatorics

Skills

Most Experienced In   Ruby, Ruby on Rails, Java, Scala, SQL, Swift
Familiar With   HTML, HAML, CSS, SCSS, Javascript, jQuery, React.js, Django, Bash, C/C++, Python, R, Vim, Scikit-learn

Experience

Twitter Asia Pacific Pte Ltd. *Singapore*

DATA SCIENCE INTERN *May 2017 - Aug 2017*

- Implemented complex Scalding (MapReduce) jobs to categorize data of traffic coming to Twitter, splitting them based on various variables.
- Presented visualizations of these datasets (in Tableau) to the whole data science team as well as to marketing teams.
- Analyzed and presented data of Twitter emails, which is used to inform a product manager on traffic-driving emails.

Garena 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.

Projects

Jasmine: Chinese Learning App (https://github.com/jasmine-team/Jasmine)

IOS DEVELOPER *Feb 2017 - May 2017*

- In a team of four, developed and launched a gamified Chinese learning application using Swift 3.
- This app, which was created in an iOS Development course, won 2nd prize in the course's project showcase.
- Worked on the base game engine as well as 2 minigames that are extended from the game engine.
- Applied the MVVM architecture, Protocol-oriented programming, dependency injection, testing and continuous integration.

Rubocop (https://github.com/bbatsov/rubocop)

OPEN SOURCE CONTRIBUTOR *Aug 2017 - Present*

- Contributed "cops" (linting rules) to the popular Ruby linting "gem" (library) Rubocop.

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 on a DigitalOcean server.
- Optimized a complex database query joining six tables, reducing query times from seconds to around 200 ms.

Extracurricular Activity

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

CORETEAM MEMBER *Dec 2016 - Present*

- Currently hosting weekly technical talks to foster the hacker culture in NUS.
- Conducted a HTML/CSS workshop for around 100 participants.

Tutor for CS2020: Data Structures and Algorithms (Accelerated) *NUS, Singapore*

NUS SCHOOL OF COMPUTING *Jan 2017 - Apr 2017*

- Tutored 11 students in the span of one semester, recieving teaching award nominations from 2 students.
- Tasks include: preparing slides and extra problems for students, discussing problems two hours weekly, grading and giving feedback to student submissions, providing consultations, and grading the coding quiz.

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.