

# Herbert Ilhan Tanujaya

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## Education

### National University of Singapore

Singapore

YEAR 3 STUDENT IN BACHELOR OF COMPUTING (COMPUTER SCIENCE), HONOURS

Aug 2015 - Jun 2019 (expected)

- Semester 4 CAP: 4.50 out of 5 (3.60 out of 4)
- Relevant Courses: Software Engineering on Modern Application Platforms, Artificial Intelligence, Combinatorial and Graph Algorithms

## 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

## 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 proper software engineering principles such as Protocol-oriented programming, dependency injection, testing and continuous integration (with Travis CI), the feature branch workflow, the MVVM architecture to separate concerns.

### Rubocop (<https://github.com/bbatsov/rubocop>)

OPEN SOURCE CONTRIBUTOR

Aug 2017 - Present

- Contributes "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, receiving 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 problem sets, 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.