

# 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
- Courses: Software Engineering on Modern Application Platforms, Introduction to Computer Security, Introduction to Artificial Intelligence, Combinatorial and Graph Algorithms

## Skills

**Most Experienced In** Ruby, Ruby on Rails, Java, Scala, HTML, CSS, SQL

**Familiar With** HAML, SCSS, Javascript, jQuery, React.js, Django, Bash, C/C++, Python, R, Vim

**Languages** English, Bahasa Indonesia, Chinese (intermediate)

## Experience

### Twitter Asia Pacific Pte Ltd.

Singapore

DATA SCIENCE INTERN

May 2017 - Aug 2017

- Implemented complex Scalding (MapReduce) jobs to process the Traffic Attribution dataset, categorizing them into various referral buckets, as well as visualized them in Tableau.
- Explored data to gain business insights on Twitter, such as email sources and user states time series, using Presto (SQL) to obtain the data.

### Sea Ltd.

Singapore

SERVER DEVELOPER INTERN

May 2016 - Aug 2016

- Established a data aggregation system on Sea'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

- Built a gamified Chinese learning app using Swift 3 in a team of four, using the MVVM architecture to easily separate concerns.
- Worked on a base game engine as well as 2 grid-like minigames that are extended from the engine.
- Applied proper software engineering principles such as Protocol-oriented programming, dependency injection, testing and continuous integration (with Travis CI), the feature branch workflow.

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

OPEN SOURCE CONTRIBUTOR

Aug 2016 - Present

- Contributed a few "cops" (linting rules) to the popular Ruby linting 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, managing a DigitalOcean server at the same time.
- Optimized complex database queries involving as many as six tables.
- Designed a mobile-friendly interface with a good user experience.

## 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.
- Prepared slides and extra problems for students, as well as marked problem sets and coding quizzes.

## 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.