

# 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 - PRESENT

- Semester 2 CAP: 4.70 out of 5
- Courses taken: Programming Methodology, Data Structures and Algorithms, Introduction to Computer Security, Computer Organization
- Courses currently taking: Design and Analysis of Algorithms, Introduction to Programming Languages

## Skills

**General** Java, Python, Ruby, Git, LaTeX, C/C++ (limited), Scala (limited), Bash (limited)

**Web** Ruby on Rails, Django, HTML5, CSS, Javascript, PHP (limited), SQL

**Production Systems** Capistrano, NGINX

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

## 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 provided programmers these notifications.
- Assisted developers in creating a round-robin game tournament administration system.
- Refactored and implemented new features on a legacy system run on Django 1.3.

## Projects

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

FULL-STACK DEVELOPER

Apr. 2016 - Present

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

### Hack&Roll Hackathon 2016 ([devpost.com/software/hacknroll](https://devpost.com/software/hacknroll))

NUS, Singapore

BACK-END DEVELOPER

Jan. 2016

- Within 24 hours, my team successfully developed a program to automatically generate a NUS timetable.
- As an individual task, I designed and implemented an algorithm to generate the timetables in Javascript.

## Extracurricular Activity

### Indonesian Online Math Contest

Indonesia

PRESIDENT

Jan. 2016 - PRESENT

- Coordinated a team of 40 people in organizing a monthly online mathematics contest with around 120 participants every month.
- Proposed marketing strategies to expand outreach, including the utilization of social media in Facebook and LINE.
- Published two math olympiad books with around 100 past problems and solutions each.

### NUS Students' Union Committee for Information Technology

NUS, Singapore

TECHNICAL HEAD

Sep. 2015 - PRESENT

- Provided web development training to members on both PHP and Ruby on Rails.
- Supervised a team of five in troubleshooting NUS computers' issues.

## 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.