

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 - Jul. 2016

- Performed data aggregation based on old data and real-time data from the messaging queue system Apache Kafka.
- Processed failed notifications from game APIs and created a friendly user interface for viewing these notifications.
- Helped create a tournament admin system with authentication and authorization.
- Worked with legacy code systems on Django 1.3.

Projects

Indonesian Online Math Contest Website

FULL-STACK DEVELOPER

Apr. 2016 - Present

- Created a platform for managing math contests on Ruby on Rails with around 25 database tables.
- Helped optimize complex queries, including one that involves around five tables to show contest results.
- Created a mobile-friendly interface with a good user experience.
- Implemented a proper authorization and authentication system as well as many security considerations, such as sanitation of all user inputs.
- Website is hosted on <https://ktom.tomi.or.id> with a Unicorn and NGINX stack.
- Project can be found on <http://github.com/donjar/kontes-terbuka>.

Hack&Roll Hackathon 2016

NUS, Singapore

BACK-END IMPLEMENTER

Jan. 2016

- Devised an algorithm to automatically create a NUS timetable based on certain constraints with Javascript.
- Project can be found on <http://devpost.com/software/hacknroll>.

Extracurricular Activity

Indonesian Online Math Contest

Indonesia

CHAIRMAN

Jan. 2016 - PRESENT

- Lead a team of 40 people in organizing a monthly online mathematics contest.
- Supervised problem creating and solution marking of around 120 participants each month.
- Helped manage the Facebook page and LINE official account of the project.
- Published two math olympiad books with around 100 past problems and solutions each, including many tips and comments to guide math olympiad enthusiasts.

Awards

International Mathematical Olympiad

South Africa, Thailand

BRONZE MEDALIST

2014, 2015

- I won the Bronze Medal twice in the International Mathematical Olympiad, the most prestigious high school mathematical competition in the world.