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, LaTeX, Python, Ruby, C/C++ (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*

- Did data aggregation based on old data containing millions of database records and real-time data from Apache Kafka.
- Processed failed notifications from game APIs and created a friendly user interface for viewing notifications with AJAX requests.
- 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 complex and efficient 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 for users to submit answers and view contest results.
- Implemented a proper authorization and authentication system as well as many security considerations, such as sanitazion 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.