Herbert Ilhan Tanujaya

(+65) 8301 4667 | ✉ h.i@u.nus.edu | donjar

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

Proficient In   Java, Python, Ruby, Ruby on Rails, Django, HTML5, HAML, CSS, SCSS, Javascript, SQL, Git, LaTeX, NGINX
Familiar With   C/C++, Scala, Bash, PHP
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 (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.
- Optimized complex database queries involving as many as six 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 (http://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 150 past problems and solutions each.

NUS Students' Union Committee for Information Technology   *NUS, Singapore*

TECHNICAL HEAD   *Sep. 2015 - PRESENT*

- Maintained a web server consisting of a homepage written in Wordpress and an internal website written in PHP.
- 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.