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 (3.60 out of 4)
- 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 (conversational)

Experience

Twitter Asia Pacific Pte Ltd.   *Singapore*

Data Science Intern   *May 2017 - Aug 2017*

- Implemented complex Scalding (MapReduce) jobs to categorize data of traffic coming to Twitter, splitting them based on various variables.
- Presented visualizations of these datasets (in Tableau) to the whole data science team as well as to marketing teams.
- Analyzed and presented data of Twitter emails, which is used to inform a product manager on traffic-driving emails.

Garena 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 provides programmers these notifications.

Projects

Jasmine: Chinese Learning App (https://github.com/jasmine-team/Jasmine)

iOS Developer   *Feb 2017 - May 2017*

- In a team of four, developed and launched a gamified Chinese learning application using Swift 3. This app, which was created in an iOS Development course, won 2nd prize in the course's project showcase.
- Worked on the base game engine as well as 2 minigames that are extended from the game engine.
- Applied proper software engineering principles such as Protocol-oriented programming, dependency injection, testing and continuous integration (with Travis CI), the feature branch workflow, the MVVM architecture to separate concerns.

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 on a DigitalOcean server.
- Optimized a complex database query joining six tables, raising query times from seconds to around 200 ms.
- Designed a mobile-friendly interface with user experiences considerations.

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.
- Tasks include: preparing slides and extra problems for students, grading and giving feedback to problem sets, providing consultations, and grading the coding quiz.