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
- 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 (intermediate)

Experience

Twitter Asia Pacific Pte Ltd.   *Singapore*

DATA SCIENCE INTERN   *May 2017 - Aug 2017*

- Implemented complex Scalding (MapReduce) jobs to process the Traffic Attribution dataset, categorizing them into various referral buckets, as well as visualized them in Tableau.
- Explored data to gain business insights on Twitter, such as email sources and user states time series, using Presto (SQL) to obtain the data.

Sea Ltd.   *Singapore*

SERVER DEVELOPER INTERN   *May 2016 - Aug 2016*

- Established a data aggregation system on Sea'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*

- Launched a gamified Chinese learning app using Swift 3 in a team of four, using the MVVM architecture to easily separate concerns.
- Worked on a base game engine as well as 2 grid-like minigames that are extended from the engine.
- Applied proper software engineering principles such as Protocol-oriented programming, dependency injection, testing and continuous integration (with Travis CI), the feature branch workflow.

Rubocop (https://github.com/bbatsov/rubocop)

OPEN SOURCE CONTRIBUTOR   *Aug 2017 - Present*

- Contributed "cops" (linting rules) to the popular Ruby linting library Rubocop.

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 complex database queries involving as many as six tables.
- Designed a mobile-friendly interface with a good user experience.

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.
- Prepared slides and extra problems for students, as well as marked problem sets and coding quizzes.

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.