

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

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

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

- Built 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 2016 - Present

- Contributed a few "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, managing a DigitalOcean server at the same time.
- 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.