Herbert Ilhan Tanujaya

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Education

National University of Singapore   *Singapore*

DOUBLE DEGREE STUDENT IN BACHELOR OF COMPUTING (COMPUTER SCIENCE) AND BACHELOR OF SCIENCE (MATHEMATICS)   *Aug 2015 - Jun 2020 (expected)*

- Current CAP: 4.54 out of 5 (3.64 out of 4)

Skills

Most Experienced In   Ruby, Ruby on Rails, Python, SQL, Swift, Scikit-Learn

Familiar With   HTML, HAML, CSS, SCSS, Javascript, jQuery, React.js, Django, Bash, C/C++, Clojure, Rust, R, Vim, Keras

Experience

Bloomberg LP   *London*

SOFTWARE ENGINEERING INTERN   *Aug 2018 - Present*

- Refactored legacy code in the core infrastructure that supports providing live financial data to all clients.

Jump Trading LLC   *Singapore*

QUANTITATIVE RESEARCH INTERN   *Jun 2018 - Aug 2018*

- Learnt basic finance and trading skills, such as: market-making, passive/aggressive orders, momentum follow, mean inversion.
- Compared different machine learning models: linear regression (with regularization), random forests, gradient boosted regression trees (GBRT), and recurrent neural networks (RNN), on financial market data.
- Researched and simulated the impact of trading signals for a new exchange Jump Trading is trading on.

Twitter Inc.   *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. The data was 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 for 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.

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 were extended from the game engine.

Extracurricular Activities

NUS Hackers (https://nushackers.org)   *NUS, Singapore*

CORETEAM MEMBER   *Dec 2016 - Present*

- Hosted weekly technical talks to foster the hacker culture in NUS.
- Played a major part in conducting Hack&Roll 2018, the largest student-run hackathon in Singapore.
- Conducted a HTML/CSS workshop for around 100 participants.

Teaching   *NUS, Singapore*

- Tutored 11 students on data structures and algorithms in the span of one semester, receiving positive feedback from all of them.
- Graded projects and gave feedback to 7 students for an advanced software engineering class.
- Designed a one year curriculum for learning Ruby on Rails, and used them to mentor beginners. In a year, they progressed from not knowing how to code to successfully building a product.

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.