

Herbert Ilhan Tanujaya

☎ (+65) 8301 4667 | ✉ mail@herbert.id | 🏠 herbert.id | 📱 donjar

Education

National University of Singapore

DOUBLE DEGREE STUDENT IN BACHELOR OF COMPUTING (COMPUTER SCIENCE) AND BACHELOR OF SCIENCE (MATHEMATICS)

Singapore

Aug 2015 - Jun 2020 (expected)

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

Skills

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

Familiar With HTML, HAML, CSS, SCSS, Javascript, jQuery, React.js, Django, SQL, Bash, C, Rust, R, Keras

Experience

Bloomberg LP

London

SOFTWARE ENGINEERING INTERN

Aug 2018 - Dec 2018

- Added a scalable backpressure system for the core infrastructure that supports providing live financial data to all clients, involving various internal tools and well-known tools such as Redis.
- Implemented many command-line scripts in Python to automate internal tasks.

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.

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 and 2019, the largest student-run hackathon in Singapore.

Teaching

NUS, Singapore

- Tutored 11 students on data structures and algorithms in the span of one semester, receiving positive feedback from all of them.
- Last year, graded projects and gave feedback to 7 students for CS3217, an advanced software engineering class. Currently, I become the head teaching assistant of the same course.
- 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.