

Herbert Ilhan Tanujaya

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Education

National University of Singapore

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

Singapore

Aug 2015 - Jun 2020

- Average CAP/GPA: 4.63 out of 5 (3.70 out of 4)

Skills

Languages Python, C++, Ruby, SQL, Scala, Bash, C, Java, Rust, R, Clojure, Go

Web Ruby on Rails, HTML, HAML, CSS, SCSS, Javascript, Typescript, jQuery, React.js, Redux, Django, Flask, aiohttp

Mobile iOS Development with Swift

Data Science Scikit-Learn, Keras, Scalding, Kubernetes

Experience

Traverse Technologies

SOFTWARE ENGINEER

Singapore

Jun 2020 - present

Basis AI

SOFTWARE ENGINEERING INTERN

Singapore

May 2019 - Jun 2019; Sep 2019 - Apr 2020

- Helped build the company's MVP web app using aiohttp in Python for backend, as well as React, Redux, and Typescript for frontend.
- Also interfaced with infrastructure tools such as Kubernetes and Helm.

Jump Trading LLC

QUANTITATIVE RESEARCH INTERN

Singapore

Jun 2018 - Aug 2018; Jul 2019 - Aug 2019

- 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 various markets.

Bloomberg LP

SOFTWARE ENGINEERING INTERN

London

Aug 2018 - Dec 2018

- Added a scalable backpressure system for the C++ 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.

Twitter Inc.

DATA SCIENCE INTERN

Singapore

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.

Sea Ltd.

SOFTWARE ENGINEERING INTERN

Singapore

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.

Extracurricular Activities

NUS Hackers (<https://nushackers.org>)

CORETEAM MEMBER

NUS, Singapore

Dec 2016 - Apr 2020

- Hosted weekly technical talks to foster the hacker culture in NUS.
- Conducted some talks on various topics: getting an internship (with around 100 attendees), SQL queries, modern programming languages, and the RSA cryptosystem in practice.
- Played a major part in conducting Hack&Roll 2018, 2019, and 2020, the largest student-run hackathon in Singapore.

Teaching

NUS, Singapore

- Appointed as the head teaching assistant for CS3217, an advanced software engineering class, in which I rewrote the assignments and the tutorials to keep up with modern iOS practices. I also taught the tutorials and gave feedback to students. I received a feedback score of 4.5 and 7 teaching award nominations out of 40 students.

Awards

International Mathematical Olympiad

BRONZE MEDALIST

South Africa and Thailand

2014, 2015

- Won two bronze medals in the International Mathematical Olympiad, the most prestigious high school mathematical competition.