Sean Ng

pengnam.github.io | seanngpengnam@u.nus.edu | +65 9726 4799

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE
B. Comp. (Computer Science)
Second Major in Statistics
University Scholars Program
Expected Dec 2020
CAP: 4.81 / 5.0

NATIONAL JUNIOR COLLEGE
Highschool
Grad. 2014
Graduate Speaker

LINKS

Github:// pengnam
LinkedIn:// sean ng

COURSEWORK

COMPUTER SCIENCE
Machine Learning
Distributed Systems and Algorithms
Information Retrieval

STATISTICS
Bayesian Inference
Regression Analysis
Monte Carlo Methods

SKILLS

PROGRAMMING
Familiar:
Python | Golang | Java
Experienced:
Kafka | React | Django | SQL | NoSQL |
Linux | C | Javascript | Tensorflow |
Docker |

AWARDS

2018   2nd place NUS Datathon
2014   Graduate Speaker
2012   Silver - Singapore Math Olym.
2012   Silver - APCYS

EXPERIENCE

SEA(GARENA) | Software Engineering Intern
Incoming May 2019 | Singapore
Interning under SEA, one of the leading tech companies in South East Asia.
- **Will be working on machine learning and distributed systems related projects** (Golang, Elasticsearch)

99.CO | Software Engineering Intern
May 2018 - Aug 2018 | Singapore
Property tech start-up funded by Sequoia, 500 Startups and Eduardo Saverin.
- **Developed and deployed** company's data pipeline system, actively in use by company's data team. Over **50% faster** than previous system. (Airflow, Python)
- **Developed tools** that collect application metrics, alert staff during **server or data failure**. (Python)
- Wrote web crawlers for key services. (Python)

NATIONAL UNIVERSITY OF SINGAPORE | Teaching Assistant
Jan 2018 - Present | Singapore
- **Conducted tutorials** to undergraduate students, marked assignments, **created missions used by over 400** students yearly.

COMPUTATIONAL CHEMISTRY RESEARCH | Researcher
Jan 2010 - Dec 2014 | Singapore
- Simulated models using shell scripting and machine learning techniques.
- Published paper in **Scientific Reports, Nature**.
- Presented at post-graduate conferences, locally and overseas.

PROJECTS

CINNABOT | Residential Assistant
Used by about **140 users per week, 0 downtime**. (Golang, Systemctl)

GANDALF | Real-time visualisation of all aircrafts
Microservices based architecture with Docker, Kafka, websockets, DeckGL for front-end.

NATIONAL UNIVERSITY OF SINGAPORE DATATHON | 2nd Place
Created machine learning models that predicted timeseries data with **93% accuracy** with no lag using **stacked autoencoders and MLP**.

TAXIBROS | Web dashboard for taxi travels
Determines a better location to hail a taxi, and **display statistics and relevant graphs** for routes. (Django, GoogleMaps API, D3.js)

KAGGLE | Data Science competitions
Top 20% in various competitions. (Python)