Sean Ng

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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

Distributed Systems and Algorithms Information Retrieval Machine Learning

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

- 2019 Faculty Honour Roll
- 2019 Academic Writing Award
- 2019 1st place AI project showcase
- 2018 2nd place NUS Datathon
- 2014 Graduate Speaker
- 2012 Silver Singapore Math Olym.
- 2012 Silver APCYS

EXPERIENCE

SEA(GARENA) | SOFTWARE ENGINEERING INTERN May 2019 - Present | Singapore

Interning under SEA, one of the leading tech companies in South East Asia.

- Search, indexing, and distributed systems related projects
- Designed and implemented **search service** that serves **10% of search traffic** in Southeast Asia's largest ecommerce platform. (Elasticsearch, Golang, Hadoop)
- Implementing **distributed tracing, improving streaming platform**. (Golang, Elasticsearch, Kafka)

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)

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 conferences.

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)