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FDUCATION

NATIONAL UNIVERSITY OF **SINGAPORE**

B. COMP. (COMPUTER SCIENCE) **UNIVERSITY SCHOLARS PROGRAM** Expected May 2021 CAP: 4.70/5.0

Highschool

Grad. 2014 Graduate Speaker

LINKS

Github:// pengnam LinkedIn:// pengnam

COURSEWORK

Distributed Systems and Algorithms Information Retrieval Machine Learning

SKILLS

PROGRAMMING Most experience in:

Python | Golang Experienced: Java | Javascript | C Frameworks & Tools: Kafka | Elasticsearch | Lucene | React | Diango | Rails | SQL | NoSQL | PostgresSQL | Redis | Unix | Tensorflow | Docker | Kubernetes | Hadoop

TFACHING

Data Structures and Algorithms Programming Methodology

AWARDS

2019	Faculty Honour Roll
2019	Academic Writing Award
2019	1 st place AI project showcase
2018	2 nd place NUS Datathon

2014 Graduate Speaker

2012 Silver - APCYS

EXPERIENCE

GOOGLE | SOFTWARE ENGINEERING INTERN

Sep 2019 - Dec 2019 | Mountain View

- Worked on a dashboard used by executives to profile ads performance. (SQL)
- Worked with a team to build an internal tool that will be used by several thousand people. Received positive feedback from teammates and all code pushed to production. (Angular, TypeScript, Bazel, Java)

NATIONAL JUNIOR COLLEGE SEA(SHOPEE) | SOFTWARE ENGINEERING INTERN

May 2019 - Aug 2019 | Singapore

- Designed and implemented search service for empty search results that serves 10% of search traffic in Southeast Asia's largest ecommerce platform. (Elasticsearch, Golang, Hadoop)
- Worked on distributed streaming library used by all of team's core products. (Kafka)
- Designed and implemented stress tests, experimented to determine new search system cluster design that can handle 200% of the previous capacity. (Elasticsearch, Ansible)

99.CO | Software Engineering Intern

May 2018 - Aug 2018 | Singapore

- Developed and deployed company's data pipeline system, actively in use by company's data team. Over 50% faster than previous system. (Airflow, Pvthon)
- Developed tools that collect application metrics, alert staff during server or data failure. (Python)

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

Residential assistant that disseminates announcements to topic subscribers, provides a feedback channel, and provisions useful information such as bus times. Used by about 140 users per week, 0 downtime. (Golang, telegram)

GANDALF | Real-time visualisation of all aircrafts

Web dashboard that displays, in real-time, positions of all aircrafts in the world. Microservices based architecture with Docker, Kafka, websockets. DeckGl for front-end.

NATIONAL UNIVERSITY OF SINGAPORE DATATHON | 1 2ND PLACE

Created machine learning models that predicted timeseries data with 93% accuracy with no lag using stacked autoencoders and MLP.

2012 Silver - Singapore Math Olym. TAXIBROS | WEB DASHBOARD FOR TAXI TRAVELS

Web application that determines a better location to hail a taxi, and **display** statistics and relevant graphs for routes. (Django, GoogleMaps API, D3.js)