Sean Ng

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B. Comp. (Computer Science)
University Scholars Program
Expected May 2021
CAP: 4.70/ 5.0

NATIONAL JUNIOR COLLEGE

Highschool
Grad. 2014
Graduate Speaker

LINKS

Github:// **pengnam**
LinkedIn:// **pengnam**

COURSEWORK

Distributed Systems and Algorithms
Information Retrieval
Machine Learning
Advanced Operation Systems

SKILLS

PROGRAMMING
Most experience in:
Python | GoLang
Experienced:
Java | Javascript | C++ | Swift | Typescript
Frameworks & Tools:
Kafka | Elasticsearch | React | Django | Rails | PostgresSQL | Unix | Docker | Kubernetes | Hadoop | GraphQL | Ansible

TEACHING

Data Structures and Algorithms
Programming Methodology

AWARDS

2020	Hall of Fame (iOS project)
2019	Faculty Honour Roll
2019	Academic Writing Award
2019	1st place AI project
2018	2nd place NUS Datathon
2014	Graduate Speaker
2012	Silver - SG Math Olym.
2012	Silver - APCYS

EXPERIENCE

JUMP TRADING | Software Engineering Intern (Site Reliability)
May 2020 - Aug 2020 | Singapore
- Designed and implemented an internal tool to manage configurations, distributed processes, and **monitoring** for a **core production system**. Reduced configuration change time from **3 minutes to several seconds**.
- Implemented **deployment pipelines** and **containerised applications** to significantly reduce deployment times and toil. (Jenkins, Ansible, Podman)
- **Network analyzer** tool that allows users to rapidly **debug** network problems and latencies, significantly reducing man hours.

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 is used by **several thousand people**. Received positive feedback from teammates and all code pushed to **production**. (Angular, TypeScript, Bazel, Java)

SHOPEE | Software Engineering Intern
May 2019 - Aug 2019 | Singapore
- Designed and implemented **search service** for empty results that serves **10% of search traffic** in Southeast Asia's largest ecommerce platform. (Elasticsearch, GoLang, Hadoop)
- Worked on **distributed streaming library**. (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)

PROJECTS

MOBBIN | Product
Worked with Mobbin team to develop an idea organisation product. Responsible for backend engineering, schema design (GraphQL, Typescript). Created iOS application that has **query ordering and preserves change history**. (Swift, iOS)

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)

DISTRIBUTED K-V STORAGE | Distributed Systems
Distributed Key-Value storage. Implemented Raft algorithm. (GoLang)