




NGOH WEI YUE

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EDUCATION

National University of Singapore (NUS)

Aug 2019 – Present

- Bachelor of Computing in Computer Science (with Honours)
- CAP: 4.61
- Relevant Coursework: Data Structures & Algorithms, OOP, Computer Networks, Databases, Operating Systems
- Top Student for Software Engineering Principles and Patterns
- Distinction for Artificial Intelligence and Software Engineering Focus Area

TECHNICAL SKILLS

- Programming Languages: Python, C++, Java, JavaScript, Go, SQL
- Frontend: React, Bootstrap
- Databases: Microsoft SQL Server, PostgreSQL, MongoDB, Firebase, Redis
- Testing: Jest, Mocha, Chai, JUnit5
- Cloud Native: Docker, Kubernetes, Google Cloud Platform, Microsoft Azure

WORK EXPERIENCE

Squarepoint Capital

Software Engineering Intern

Aug 2022 – Present

Python, C++

- Identified bottlenecks in the firm's order gateway logging system by running extensive benchmarking tests
- Optimised data logging system by reducing memory consumption and data processing latency

Morgan Stanley

Software Engineering Intern

May 2022 – Aug 2022

Go, Rego, Open Policy Agent

- Spearheaded the development of a policy engine to enhance the firm's role-based access control system
- Built a Go package to establish SASL-based authenticated connection to LDAP servers for querying real-time data
- Performed benchmarking tests to compare 2 different approaches of pulling data from LDAP servers

GIC Private Limited

Software Engineering Intern

Dec 2021 – May 2022

Typescript, React, Redux, Node.js, NestJS, SQL, Jest

- Developed on-demand dashboards and interactive analytic charts for 3 asset classes
- Built REST APIs to dynamically query and process data from relational databases
- Implemented end-to-end testing to improve software quality and reliability

National University of Singapore (NUS)

Teaching Assistant (Introduction to Artificial Intelligence)

Aug 2021 – Dec 2021

- Graded weekly assignments and provided timely feedback to 31 students on basic AI concepts including Search Problems, Reinforcement Learning and Logical Agents

GlobalFoundries

Software Engineering Intern

Dec 2020 – Jan 2021, May 2021 – Jul 2021

Python, SQL, Automation Anywhere

- Designed and developed 3 Robotic Processing Automation (RPA) bots to automate the retrieval of data, reducing preparation time for meetings by 80%
- Initiated the development of Python scripts to automate the creation of daily meeting reports thereby saving ~1,000 man-hours a year
- Optimized the filtering of data by integrating SQL queries with RPA bots, reducing runtime by 50%

PROJECTS

NFT Price Estimator

Mar 2022 – Apr 2022

Python, TensorFlow, Microsoft Azure

- Performed data processing and features extraction using convolutional neural network models on a large dataset of NFTs (~33.5GB)
- Trained and fine-tuned hyperparameters of regression models to estimate prices of NFTs

PeerPrep

Sep 2021– Nov 2021

JavaScript, React, Node.js, Express, Docker, MongoDB, GCP

- Developed a web application with 3 other group members to help aspiring software engineers practice technical interviews with each other
- Built REST APIs for a User Account Management microservice
- Implemented a code editor that allows real-time communication between users

CO-CURRICULA EXPERIENCE

Basketball, KEVII Hall

Feb 2020 – Mar 2021

Captain

- Led a team of 25 freshmen and seniors for training and cultivated their passion for the game through fun and effective practice drills
- Liaised with hall leaders to ensure that the team has adequate funds and support for conducive and safe training especially during the COVID-19 pandemic

OTHERS

- **Workshops:** Facebook's Above & Beyond Computer Science (ABCS) Program, Hackwagon Academy's Data Analytics with Python (Distinction)
- **Hackathons:** NUS GreyCTF 2022, LifeHack 2021, Shopee Code League 2020