

Nicholas Yap

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<https://www.linkedin.com/in/nicholas-yap-5706311b7> | github.com/nicyzk

EDUCATION

Nanyang Technological University

B.Eng.Sc(Computer Science) & MSc (Technology Management) & Minor (Math) | CGPA: 3.78/4.0

- Rising Sophomore at NTU Renaissance Engineering Program (REP)
- Awarded NTU REP scholarship
- **Relevant Coursework:** Data Structures & Algorithms, Intro to Engineering Computation, Object-Oriented Programming, Software Engineering, Probability and Intro to Statistics

Raffles Institution

GCE 'A' level Certification

- Achieved a rank point of 88.75/90 for the GCE 'A' level examination

SKILLS

Computer Science: Python, JavaScript, C, Java, NodeJS, Html, CSS, PostgreSQL, MsSQL, Firebase

Frameworks and Technologies: React, Redux, Bootstrap, Git, Jira

PROFESSIONAL EXPERIENCE

SGInnovate, Software Engineering Intern

Dec 2021 – Feb 2022

- Proposed, design and implemented auto filling of resume details on Talent Programs (PX) and Talent Marketplace forms using Sovren API and **NodeJS**
- Oversaw and coordinated the tracking & closing of 30+ user issues between users and tech team using **Jira**
- Initiated and implemented updates to PX and Talent marketplace forms to conform to user requirements using **VueJS** and **NuxtJS**
- Assisted in UAT with 4 users from internal departments for the release of 2022 Summation and PX runs

Procare Solutions Pte Ltd., Software Engineering Intern

Mar 2021 - July 2021

- Led team of 3 in the development of **NodeJS** API for medication refill/partial order web service for HealthHub
- Coordinated with clients on technical specifications through virtual meetings
- Heavily involved in discussions on overall project architecture, created API documentation and designed database schemas in **MsSQL**
- Implemented 2-way SSL between API and test client

PROJECTS

StocksRepo.com, www.stocksrepo.com

- Simple and intuitive stock screener for Hong Kong stocks. Developed with **React, NodeJS, Postgres, Nginx**
- Import selected stocks into your portfolio and use a comparison tool to gain further insight
- Finance blog with in-depth analysis of investment ideas

Modern Portfolio Theory, www.github.com/Nicyzk/markowitz-model

- Implemented the Markowitz Model to construct a portfolio that maximizes the Sharpe ratio and compared its performance against S&P500 over different time periods. Developed with **Python, Numpy, Pandas**
- Strategy found to outperform the S&P500 by having higher log annual mean returns but a lower mean Sharpe ratio
- Visualization of performance outcomes through a bar chart and table, and implementation details can be found on GitHub

COURSES

ACCA Affiliate Member

- Self-studied and completed 13/13 exams
- ACCA-ISCA Joint Pathway Program Top Student Award (Paper F5)

Self-Learning

- Algorithms Part 1 and 2 by Princeton, MIT OCW 18.012 (Calculus with Theory), MIT OCW 18.7 (Linear Algebra)