

Choon Siong Ng

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EDUCATION

National University of Singapore (NUS)

Singapore

Bachelor of Computing (Computer Science); Focus Area in Artificial Intelligence; Minor in Statistics; Minor in Life Science | GPA: 4.09/5 Aug. 2019 – June 2024

- **Relevant coursework:** Data Structures and Algorithms, Computer Networks, Operating Systems, Database Systems, Concurrent and Parallel Programming, Software Engineering, Machine Learning, Probability, Mathematical Statistics

WORK EXPERIENCE

Bioinformatics Institute, Agency for Science, Technology, and Research

Singapore

Software Development Intern | PyTorch, Nibabel, Python May 2022 – Sept. 2022

- Collaborated on development of image segmentation models for a CT-image angiography platform in Computer Vision and Pattern Discovery lab, together with National Heart Centre Singapore
- Implemented Hausdorff distance loss function for model training to address boundary shape in image segmentation
- Summarised papers on addressing inter-observer variation in ground truth

RAENA

Singapore

Data Analyst Intern | Pandas, Python May 2021 – Sept. 2021

- Wrote Pandas scripts for creating ad-hoc reports to analyze revenue metrics from complex datasets
- Automated transfer of data across spreadsheets used by various teams using Google Apps Script

PROJECTS

Parser for toy language | C++ 17, CMake | Recursive descent parser for simple toy language, and depth-first search algorithm to traverse the generated AST and extract program relationships

Simple HTTP backend system for profile management | Go, Protocol Buffers, MySQL, Redis | Backend system (exposed as HTTP endpoints) for performing CRUD operations on user profiles with session authentication

TECHNICAL SKILLS

Languages: C++ (basic), Python, Go, SQL

Tools: Git, Docker