

NGUYEN SON LINH

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SUMMARY

Curious and inquisitive student with interest in machine learning and software development projects. Highly adaptable and passionate about exploring new ideas and technologies

EDUCATION

National University of Singapore (NUS)
Bachelor of Computing in Computer Science (Hons)

Aug 2019 - May 2023

- Minor in Data Engineering

TECHNICAL SKILLS

- Programming Languages: C++, Python, HTML, CSS, Ruby, Go, Java
- Libraries and Frameworks: Ruby on Rails, TensorFlow, scikit-learn, ROS2
- Cloud services: AWS
- Databases: PostgreSQL
- OS: Linux
- Others: CUDA Programming, Git, GitHub

WORK EXPERIENCE

Omron Asia Pacific Pte Ltd, Software Engineer Intern

Jan 2022 - Jun 2022

- Designed, programmed, tested and presented an integration of Omron's autonomous mobile robot (AMR) with Robot Middleware Framework in 3 weeks.
- Devised and programmed a procedure for AMR cart alignment using ArUco marker pose estimation in OpenCV Python together with 1 mechanical engineer intern in a month.
- Conducted a demo of a robotic arm attached to an AMR carrying objects between 2 different locations to a live audience of 5 from a prospective client, after spending 2 weeks learning how to control the robotic arm and improvising a custom flow to make the object gripper work via wires to replace a missing adapter.

NUS Office of Admissions, Student Ambassador

Oct 2021 - Present

- Provides prompt responses to queries from prospective students and supervised 1 Training SA; writes weekly reports on frequent questions and student backgrounds.

PROJECTS

Threat Detection in Images, Developer

Oct 2022 - Nov 2022

- Collaborated with 1 team member manual data inspection and designed a pluggable data preprocessing pipeline for around 4000 images.
- Applied transfer learning with ResNet and Inception to classify images into 3 different threat levels: normal, carrying and threat.
- Visualize results and led poster design stage, presented and assisted 2 team-mates on demo day.

Exchange Matching Engine in C++, Developer

Mar 2023 - Mar 2023

- Utilized C++ synchronization primitives to create a concurrent matching engine in 2 weeks; implemented fine-grained locking for priority queue and hash table for maximum concurrency.

SPA, Member

Aug 2021 - Dec 2021

- Built a static program analyser in C++ for language SIMPLE with 5 team-mates; main responsibility was to plan and implement parsing logic for source programs, including Control Flow Graph (CFG).
- Handled more than 100 test cases for unit testing, integration testing for the source processor and system testing; documented work in detail and made a presentation to supervisor.

ADDITIONAL INFORMATION

- Languages: Fluent in English and Vietnamese