

Cao Ngoc Linh

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Education

National University of Singapore - 1st Year

Bachelor of Computing (Honours) in Computer Science - GPA: N/A
University Scholars Program

2020 – 2024

Singapore

NUS High School of Mathematics and Science

Honours in Mathematics & Computer Science - GPA: 4.9/5.0
Dual Enrollment with NUS Computer Science - GPA: 4.5/5.0

2015 – 2019

Singapore

Digipen Institute of Technology

Game Design Summer Exchange Program

2017 – 2017

Redmond, WA, USA

Experience

PIXTA Inc.

Backend Developer Intern

May. 2020 – Jul. 2020

Hanoi, Vietnam

- > Isolate and containerise image processing microservices to reduce resource usage by 3x
- > Update image tracking system and increase test coverage from 70% to 95%
- > Implement logging database on Elasticsearch to process 50K messages/day

AppVenture Computing Club

President

Nov. 2017 – Nov. 2019

Singapore

- > Lead 55 student developers to complete 8 school improvement projects such as digital meal coupon system
- > Run 20 school-wide events namely tech meetups, cybersecurity competitions and tech workshops
- > Manage club's website that showcases outstanding student projects

Artificial Intelligence Singapore

Community Outreach Intern

Nov. 2018 – Nov. 2018

Singapore

- > Design AI for Kids™ Bootcamp, sponsored by Facebook and has reached 300 primary students in 22 schools
- > Craft 6 online Machine Learning lessons hosted on AISG/Makerspaces
- > Develop drag-and-drop AI coding application with Scratch and Microsoft Azure Custom Vision

iHealthTech Lab

Student Researcher

Jul. 2018 – Dec. 2018

Singapore

- > Program Arduino to calculate pulse from blood light absorption level and output to a self-healable display

Projects

Interactive Display Launcher

- > Customized Android launcher with enhanced visibility and security features for school digital noticeboard
- > Synchronize school announcements stored in Firebase and bus timings using Singapore LTA API

Enigma Machine Simulator

- > JavaFX visualization of encryption mechanism of WWII Enigma Machine

Blockchain Database

- > Simulation of Bitcoin blockchain ecosystem in relational database

Programming Skills

Language Python, Ruby, Java/JavaFX, MySQL, C, C++, Assembly

Skills Ruby on Rails, AWS, Docker, Kubernettes, ELK Stack, Scrum & Agile