John Ling

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Portfolio Website

PROJECTS

Pseudocode Compiler – [Github](#)

October 2022 - May 2023

Designed and built a functional lexer, parser and code generator to transpile A-Level pseudocode to executable Python.

Cameraman – [Github](#)

November 2021 - February 2022

Real-time face tracking robotics using OpenCV's DNN module and an ATmega328p microcontroller. Housed in a 3D printed case modelled using Fusion 360.

Portfolio Website – [Github](#)

June 2022 - August 2022

Personal website to showcase awards, projects and talk about myself. Built using vanilla JS, Sass CSS and Bootstrap HTML.

EXPERIENCE

AmBank, Malaysia — *Cybersecurity Intern*

June 2022

Shadowed under the cybersecurity team of AmBank, one of Malaysia's largest banks, learning best practices for securing production servers from cyberattacks. Learned networking and collaborative skills.

Plugged In Malaysia, Malaysia – Founder

June 2021 - Present

Founded and led an NGO effort named Plugged In Malaysia at 15. During this time, I refurbished various electronics and distributed them to schools I connected through networking. Later, I developed management skills as I organised a 7-person team of students to help me repair the electronics. Over 166 computers were donated.

EDUCATION

Garden International School, Malaysia

August 2017 - June 2023

International A Levels (Predicted): Mathematics: A*, Physics: A*, Computer Science: A*

International AS Levels (Highest achievable grade is A): Mathematics: A, Physics: A, Computer Science: A

IGCSE: Grade: 9A*

Harvard CS50 Introduction to Computer Science, Online

January 2021 - December 2021

SKILLS

Programming Languages:

- Python
- C#
- Javascript w/(NodeJS and React
- HTML w/Bootstrap
- CSS w/Sass
- C++
- SQLite
- C

Technical Skills:

- React
- Ubuntu Server
- OpenCV
- NGINX

AWARDS

EARCOS Global Citizenship Award 2022: Achieved for founding and running an NGO named [Plugged In Malaysia](#).

GIS Learners Award: Attained for my work maintaining Plugged In Malaysia for over a year.

CS Academic Award: Received for exceptional endeavours related to Computer Science within my school.