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EDUCATION

CARNEGIE MELLON UNIVERSITY (CMU)

BS IN ELECTRICAL AND COMPUTER **ENGINEERING**

MINOR IN SOFTWARE ENGINEERING May 2023 | Pittsburgh, PA GPA: 4.0 / 4.0

Coursework

- Computer Systems (C / Assembly)
- Data Structures and Algorithms (C)
- Fundamentals of Computer Science (Python)
- · Introduction to Electrical and Computer Engineering

SKILLS

LANGUAGES

Java • Python • C • C++ Javascript • Typescript PHP • SQL • Bash

FRAMEWORKS

Git • Linux • Nginx Android SDK/NDK • Flutter NodeJS • Express • ReactJS • Slim MongoDB • MySQL • Firebase TensorFlow • OpenCV • Node-Red

HARDWARE

Arduino • Raspberry PI • NodeMCU

PUBLICATIONS

Development of a Mobile Android Application on Optical Character, Speech, and Sign Language Recognition

published in the proceedings of the 2018 Physics Society of Visayas and Mindanao National Conference (Philippines)

HONORS

2019 CMU Dean's List (Fall 2019)

2019 8th place at National Olympiad for Informatics (Philippines)

2018 5th place at National Olympiad for Physics (Philippines)

Work Experience

CMU HUMAN COMPUTER INTERACTION INSTITUTE

COMPUTER HUMAN INTERACTION: MOBILITY PRIVACY SECURITY GROUP

Summer Undergraduate Research Assistant

May 2020 - Present | Pittsburgh, PA

https://privacystreams.github.io/

 Developed a functional system that anonymizes sensor data from IoT devices using Node-Red and Node.JS

SELECTED PROJECTS

DASHBOARD PHILIPPINES

March 2020 - Present | Philippines

https://dashboardphilippines.com/

https://donations.dashboardphilippines.com/

- Partnered with the Philippine government to develop a national dashboard centralizing information and relief distribution in the Philippines during COVID-19 pandemic
- Created platform streamlining donation process to hospitals to address the deficiency of medical supplies using MongoDB, Express, React, and Node.JS (Typescript)

NATIONAL AIR QUALITY MONITORING SYSTEM

March 2019 - Present | Philippines

https://github.com/ph-innovation-network/amihan

- Designed and created modular air quality monitoring device using Arduino and NodeMCU
- · Created backend for collecting this information using PHP (slim) and MySQL

PUBLIC TRANSPORT TRACKING APP

December 2018 | Philippines https://github.com/gramliu/Suroy

- Developed Android app showing locations of public transportation vehicles in the Philippines with Firebase and Google Maps integration
- Awarded in multiple national competitions in the Philippines

ACTIVITIES AND | FADERSHIP

SCOTTYLABS | DIRECTOR OF TECHNOLOGY

August 2019 - Present | Pittsburgh, PA

- Led the Tech Committee with 25 members, working on various projects and APIs for the CMU community
- Developed Course API which gives access to course information using MongoDB, Express, React, and Node.JS (MERN) Stack
- Developing registration system for TartanHacks (CMU's largest Hackathon) using MERN Stack

SOCIETY OF ASIAN SCIENTISTS AND ENGINEERS

EVENTS COORDINATOR

August 2019 - Present | Pittsburgh, PA

• Organized professional and cultural events for club with 10-15 active members to enrich student experience and pride in Asian heritage