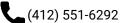


MERN stack

Events Coordinator, Society of Asian Scientists and Engineers

Organized professional and cultural events for 15 active members

GRAM LIU





EDUCATION Carnegie Mellon University Pittsburgh, PA Bachelor of Science in Electrical and Computer Engineering, GPA: 4.0 / 4.0 May 2023 Relevant Coursework: Computer Systems (Assembly/C), Data Structures and Algorithms (C), Fundamentals of Computer Science (Python), Introduction to Electrical and Computer Engineering Skills & Honors Languages: JavaScript, TypeScript, Java, Python, C, C++, PHP, SQL, Bash Frameworks: NodeJS, Express, ReactJS, Slim, MongoDB, MySQL, Firebase, Android SDK/NDK, Flutter, Git, Linux, Nginx, TensorFlow, OpenCV, Node-RED Hardware: Arduino, Raspberry Pi, NodeMCU Honors: CMU College of Engineering Dean's List 2019-2020 8th Place, National Olympiad for Informatics, Philippines 2019 5th Place, National Physics Olympiad, Philippines 2018 EXPERIENCE Research Assistant, CMU Human Computer Interaction Institute May 2020 - Present Computer-Human Interaction: Mobility Privacy Security Group Developed an IoT network hub that transforms normal sensors across LAN into a smart home system with a focus on privacy using Node-RED, Node.JS, OpenCV, and TensorFlow Fullstack Engineer, Dashboard Philippines March 2020 - Present https://dashboardphilippines.com/ | https://donations.dashboardphilippines.com/ Developed a national dashboard to centralize information about transportation routes, food supply, and relief distribution in the Philippines amidst the COVID-19 pandemic Developed platform that streamlined process of donating medical supplies to hospitals using MongoDB, Express, React, and Node.JS (TypeScript) (MERN Stack) SELECTED PROJECTS National Air Quality Monitoring System (Philippines) March 2019 Designed and created modular air quality monitoring device using Arduino and **NodeMCU** Created backend for collecting information using PHP (slim) and MySQL **Public Transport Tracking App** (Philippines) December 2018 Developed Android app showing locations of public transportation vehicles using Firebase and Google Maps integration **PUBLICATIONS** Development of a Mobile Android Application on Optical Character, Speech, and Sign 2018 **Language Recognition** Co-authored and published a paper in the proceedings of the 2018 Physics Society of Visayas and Mindanao (Philippines) National Conference **ACTIVITIES AND LEADERSHIP Director of Technology**, ScottyLabs 2019-Present Led weekly meetings with a committee of 25 members, working on various software engineering projects and APIs for the CMU community Developed a **RESTful API** for course information and estimated workload per week for different courses using MERN stack Developing new registration system for TartanHacks, CMU's largest hackathon, using

2019-Present