GRAM LIU

(412) 551-6292 • gramliu@cmu.edu • https://www.linkedin.com/in/gdliu/https://github.com/gramliu

Carnegie Mellon University Bachelor of Science in Electrical and Computer Engineering, GPA: 4.0 Relevant Coursework: Fundamentals of Programming and Computer Science, Introduction to Electrical and Computer Engineering, Principles of Imperative Computing*, Fundamentals of Mechanical Engineering* * - in progress	Pittsburgh, PA May 2023
SKILLS	
Software: Java, Python, C++, Android SDK/NDK, Flutter, PHP, MySQL, Node.JS, Bootstrap, JQuery, Git, OpenCV, TensorFlow, Google Firebase, Google Maps API, SolidWorks  Hardware: Arduino, Raspberry Pi, NodeMCU	
PROJECTS	
<ul> <li>National Air Quality Monitoring System (Philippines)</li> <li>Designed and created modular air quality monitoring device with 20 other team members</li> <li>Role: Backend and Full-stack Developer</li> <li>Technologies used: PHP (slim), MySQL, Arduino, NodeMCU, Flutter</li> <li>Public Transportation Tracking App (Philippines)</li> </ul>	2019-Present 2018-2019
<ul> <li>Developed public transportation Android app with integrated RFID payment system</li> <li>Received awards: 1st place, Arduino Day (2019); 2nd Place, Hack4PH (2018)</li> <li>Role: Lead developer in team of four</li> </ul>	
<ul> <li>Technologies used: Arduino, Android SDK, Google Firebase, Google Maps API</li> <li>Sensory and Learning Disability Aid (Philippines)</li> <li>Developed Android app for sign language, speech, and optical character recognition</li> <li>Received awards: Silver Medal, International Invention and Innovation Competition in Canada (iCAN); Bronze Medal, Asian Youth Innovation Awards; Champion, iGEN: Ideas to</li> </ul>	2018
Innovation  • Role: Solo Developer  • Technologies used: Android SDK/NDK, TensorFlow Lite, OpenCV Android  GripAid (Philippines)  • Created grip exoskeleton to provide additional grip strength for those with degenerating physical conditions such as arthritis	2019
Role: Developer Technologies used: Arduino	
Publications	
Development of a Mobile Android Application on Optical Character, Speech, and Sign  Language Recognition  Co-authored and published a paper in the proceedings of the 2018 SPVM	2018
National Conference	
ACTIVITIES AND LEADERSHIP	
<ul> <li>ScottyLabs Tech Committee (CMU)</li> <li>Organized TartanHacks, the largest hackathon in CMU</li> <li>Contributed to PrintAPI, allowing mobile and web printing to CMU printers</li> <li>Developing API for access to CMU course information and FCE data</li> </ul>	2019-Present
<ul> <li>Developing API to control lights on the Randy Pausch Bridge of CMU</li> <li>Society of Asian Scientists and Engineers (SASE) (CMU)</li> <li>Freshman Representative</li> </ul>	2019-Present
<ul> <li>Events Coordinator</li> <li>Developh Innovation Team (Philippines)</li> <li>Encouraged youth-led innovation for social impact across the developing world</li> <li>Organized an accelerator for social good tech startups in the Philippines</li> </ul>	2019-2020
HONORS International Olympiad in Informatics 2019 (top 8 nationwide), Philippines International Physics Olympiad 2018 (top 5 nationwide), Philippines	2019 2018