SHARON LI

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EDUCATION

Carnegie Mellon University, College of Engineering Pittsburgh, PA
Bachelor of Science in Electrical and Computer Engineering and Minor in Human-Computer Interaction *Expected May 2025*
GPA: 3.5/4.0 | Engineering Dean's List
Extracurriculars: Business Technology Group, Carnegie Mellon Racing, First Together, Hong Kong Student Association, IEEE, Society of Women Engineers
Coursework: Intro to Physical Computing, Intro to Parallel Computing and Scientific Computation, Fundamentals of Programming and Computer Science (Python), Signals and Systems, Electronic Devices and Analog Circuits, Principles of Imperative Computation (C), Building User-Focused Sensing Systems, Human Robot Interaction

RELEVANT EXPERIENCE

Ecotone Renewables Pittsburgh, PA
App/Web Development Intern *May 2022 - August 2022*
- Determining the structure and design of web pages using Flutter to develop features to enhance the user experience
- Optimizing web pages for maximum speed and scalability while ensuring web design is optimized for smartphones

FRC 2601 Steel Hawks Robotics Team Flushing, NY
Electrical Team Member (17- 21), Vice President of Public Relations (20-21), Mentor (21-22) *September 2017 - Present*
- Collaborated with mechanical department to build, design, and program industrial-size robots in 6 weeks for competition; advanced to world championships in 2018 and 2021
- Planned outreach events for over 15 FRC teams and taught a STEAM curriculum to over 300 K-8 students monthly

Generation Why Remote
Human Resources Department Head, System Development Intern *June 2021 - August 2021*
- Spearheaded HR team to implement new measures to improve work environment for over 25 interns
- Planned and wrote code in Javascript to develop a comprehensive search engine specifically for small businesses

PROJECTS

Chopped, CMU Fundamentals of Programming and Computer Science Term Project August 2022
- Recreated and programmed a popular cooking game, *Overcooked*, in Python along with additional features such as a functional opponent AI and multiplayer mode under a timeframe of less than 1 week

Double Transducer: Printed Color to Servo Angle, CMU Introduction to Physical Computing September 2022
- Built and coded a color-to-movement-to-position device composed of a color sensor, linear actuator, ultrasonic sensor, servo motor, and I2C LCD display where input signals are converted throughout different domains to output an angular position

Assistive MIDI Controller, CMU Introduction to Physical Computing October 2022 - December 2022
- Programmed and constructed an assistive musical instrument that sends MIDI signals to create music digitally based on different inputs dependent on foot movements such as a roller and foot pedals

Android Pedometer App, CMU Building User-Focused Sensing Systems January 2023 - February 2023
- Programmed and applied signal processing to accelerometer data read from an Android device and passed through a threshold to detect peaks in the waveform in order to count steps accurately independent of phone orientation

LEADERSHIP EXPERIENCE

Society of Women Engineers Pittsburgh, PA
Publicity Chair *May 2022 - Present*
- Design content for Carnegie Mellon's SWE Chapter's Instagram, Facebook, and LinkedIn pages to advertise chapter events
- Develop and manage online database with 45+ chapter initiatives to improve internal chapter organization and streamline member access to resources

Townsend Harris High School Student Union Flushing, NY
Student Union President *May 2020 - June 2021*
- Advocated for student concerns in order to implement effective policy changes alongside school administrators
- Organized and collaborated with club organizations in planning activities and events to strengthen student engagement

SKILLS

Technical Skills: Arduino, C, Flutter, Figma, Go, Java, Javascript, LaTeX, MATLAB, Processing, Python, R, React, Soldering