Melody Chen

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Education

University of California, Los Angeles, Los Angeles, CA   Expected June 2022
GPA: 3.90/4.00
Bachelor of Science in Computer Engineering
Relevant Coursework: Introduction to Computer Science(C++), Data Structures and Algorithms, Logic Design of Digital Systems, Computer Architecture, Introduction to Engineering Design: Internet of Things

Taipei American School, Taipei, Taiwan   2014 ~ 2018
GPA: 4.27/4.00
Relevant Coursework: APs(Physics C; Chemistry; Computer Science; English Language & Composition; Calculus AB; Calculus BC; Japanese Language & Culture; Economics)

Skills

Skills: C++, Java, Python, JavaScript, Arduino, Raspberry Pi, Microsoft Suite, Adobe Photoshop, Adobe Illustrator
Languages: English(fluent), Mandarin Chinese (fluent)**,** Taiwanese(fluent), Japanese (4 years), Spanish(4 years)

Experience

Human Computer Interaction Research Group, UCLA   3/2019 ~ Present
Undergraduate Researcher at the HCI Research Group under Prof. Xiang Chen
- Work on National Science Foundation funded XAI(Explainable AI) project "CheXplainr" for creating a transparent and interactive diagnostic system for pathology identification from chest X-ray image inputs that allows for users of the system to guide and improve the model in real time
- Write code in bash and python for data analysis and sorting of over 60,000 patients' chest X-ray records, work to improve the existing deep learning model

Bruin Racing: Super Mileage Vehicle Team, UCLA   9/2018 ~ Present
Member of EV(Electric Vehicle) Electrical- Data Acquisition Team
- Assist in the development of a Joulmeter system using Arduino, voltage divider, current shunt, and amplifier; wrote C code for the hall effect and temperature sensor of the vehicle through the Arduino
- Help assemble circuits necessary for the design of the electric vehicle that will attend the Shell Eco-Marathon 2019

Institute of Electrical and Electronics Engineers(IEEE), UCLA   9/2018 ~ Present
Member of the Open Project Space(OPS) and General Board
- Attend lectures to learn the basics of electrical engineering, such as soldering, breadboarding, serial communication, and IC chips; learn to code on an Arduino; work on projects that utilizes skills learned in lectures(ex. Blinker with 555 timer, Distance Sensor)
- Participate in IEEE's Annual Hardware Hackathon IdeaHacks; built a SmartLock with features such as facial recognition and motion detection, through the use of components such as the Raspberry Pi, gyroscope, and solenoid lock

Association of Computer Machinery(ACM), UCLA   9/2018 ~ Present
Member of ACM Artificial Intelligence, ACM Hacks
- Participated in ACM's weekly machine learning workshops and web development workshops with JavaScript
- Participate in the ACM's Annual Hack on the Hill V Hackathon; develop an app that helps user decide which of UCLA's dining hall to get food at depending on the dining hall's capacity, the user's mood, and other preferences
- Participate in the ACM's Annual Hack on the Hill VI Hackathon; develop a web app game with React where users are presented with different choices of action that will affect their statuses either positively or negatively in the game

L Labs Inc., Taiwan   06-07/2017
Paid Summer Intern
- Developed lesson plans for the MyET web-learning software; Translated English lessons into Japanese; Debugged beta versions for upcoming MyET software

Awards/Acknowledgments/Achievements

Dean's Honor List	2018 ~ 2019
Eta Kappa Nu(Electrical & Computer Engineer Honor Society)	2019 ~ Present
National Honor Society	2016 ~ 2018
National Merit Commended Scholar	2017