Xinle (Eric) Song

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EDUCATION

University of California, Los Angeles   Expected 06/2027
BS, Computer Engineering
- Relevant Coursework: Introduction to Computer Science I, Integration and Infinite Series, Electrical and Computer Engineering Undergraduate Seminar

Shanghai YK Pao School   08/2020 – 05/2023
IB Bilingual Diploma

SKILLS

- Computer: C++, Python, C, PHP, JavaScript, MATLAB, Web Design, Photoshop, Premiere Pro
- Business: Product Management, Marketing, Finance

EXPERIENCE

Member: Institute of Electrical and Electronics Engineers Club, Los Angeles, California   09/2023 – Present
- Member of the Micromouse Team to create a maze-solving mouse robot.
- Construct mouse program in C using STM32CubeIDE.
- Research components for mouse at SnapEDA and design schematic circuit board with Autodesk Fusion 360.
- Cooperate with teammates to solder and build components of mouse onto PCB board.

Full-Stack Developer: Chat App, Haddee, Online   07/2023 – Present
- Lead a team to create a real-time Chat App using JavaScript.
- Lead the design the Front-end with React Native.
- Designed the structure of the real time database and implemented user authentication using Google Firebase.
- Co-review pull-requests and merge conflicts to accelerate concurrent development.

Teaching Assistant: UPenn AI Curiosity Summer Camp, Beacon Education, Online   08/2021
- Prepare and present Power Point presentations to teach Python & OpenCV for a 20-people online class.
- Mentor group discussions to led 3 mentees to complete the Hieroglyph Classification Project.
- Instruct mentees to train ResNet-50 using CUDA and deploying the trained model on NVIDIA Jetson Dev Kit.

Researcher: Active Noise Control in Ventilation Ducts, Chinese Talent (Yingcai) Program   01/2021 – 05/2022
- Apply Feedback Control System in current ANC Solutions to improve its performance.
- Modelled the performance of the Feed-back Least Mean Square Algorithm in MATLAB and Simulink.
- Add additional Error Signal Microphone to improve ANC performance by 106% under 250Hz.
- Present at multiple rounds of viva voce and was selected as "Honor Student" and Regeneron ISEF 2022 Finalist.

LEADERSHIP

Community Representative: Rieber Terrace Residence Hall   09/2023 – Present
- Attend weekly meetings to represent the floor to discuss possible community programs.
- Oversee residence hall fund allocation by voting.

President: Computer Science Club   10/2021 – 06/2023
- Revived the club from 1 member to 30+ members in less than 2 years.
- Lead daily Introduction to Programming seminars and CodeWars Competition, with 30+ student participants.
- Cooperated with club members to create YKPS ArtPlace website that had 300+ participants.
- Organize whole-school Phishing drill and co-designed phishing website, raise awareness of cybersecurity among 600+ students.

HONORS

Recipient of the John Richard Leffler Scholarship, UCLA   09/2023
Regeneron ISEF Finalist   05/2022
HiMCM Outstanding Award (One of the 8 teams selected from 705 teams)   01/2022
YKPao Principal's Award (4 times, Grade 10 & 11 every semester)   01, 06/2021 and 01, 06/2022