Xinle (Eric) Song

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Education

University of California, Los Angeles — Los Angeles, CA
Bachelor of Science in Computer Engineering — *Expected June 2027*

- GPA: 4.0/4.0
- Recipient of the John Richard Leffler Scholarship

Technical Skills

Languages: C/C++, Python, JavaScript, SQL, HTML/CSS
Frameworks and Libraries: React Native, Google Firebase, TensorFlow, Matplotlib
Developer Tools: Git, Tencent Cloud Platform, VS Code, Xcode, STM32CubeIDE, Code Composer Studio

Experience

Undergraduate Research Assistant — Jan. 2024 – Present
UCLA Center for Heterogeneous Integration and Performance Scaling — *Los Angeles, CA*

- Lead code development for the foldable FlexTrate microLED display
- Adapted 148K+ lines of code to work with the TLC6984 disply driver chip
- Developed a C script to automate the self testing of the display
- Assisted in the circuit fabrication process, troubleshoot connections and debugged the display

Teaching Assistant — Aug. 2021
UPenn AI Curiosity Summer Camp, Beacon Education — *Online*

- Prepare and present presentations to teach Python and OpenCV for a 20-people 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

Projects

Micromouse | *C, PCB/Schematic Design, Circuit Soldering, Git* — Sep. 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 Fusion 360
- Cooperate with teammates to solder and build components of mouse onto PCB board

Chat App | *React Native, JavaScript, Firebase, Git* — July 2023 – Present

- Lead a team to create a Instant Messaging App using JavaScript
- Lead and implemented 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

Active Noise Control in Ventilation Ducts | *Matlab, Simulink, DSP* — Sep. 2020 – May 2022

- Applied the LMS Algorithm to create a Feed-Back Active Noise Control System in Ventilation Ducts
- Added a Error Signal Microphone to increase the performance of the ANC System by 106% at 250Hz
- Simulated the ANC System with LMS Algorithm in Simulink and Matlab
- Participated in multiple rounds of viva-voce and was selected to participate in the final round of ISEF 2022

Leaderships

Club President — Oct. 2021 – June 2023
YK Pao High School Computer Science Club — *Shanghai, China*

- Revived the club from 1 member to 30+ members in less than 2 years, lead daily Programming seminars
- Cooperated with club members to create YKPS ArtPlace website with 500+ participants
- Organize whole-school Phishing drill, raise awareness of cybersecurity among 600+ students