

SUMMARY

Driven UC Berkeley EECS & Linguistics student with a passion for applying machine learning to media and technology, especially for underserved groups.

EDUCATION

- **University of California, Berkeley** Berkeley, CA
Bachelor of Science in Electrical Engineering & Computer Science *Aug. 2023 – May. 2026*
 - **Relevant Coursework:** Structure and Interpretation of Computer Programs, Data Structures, Designing Information Devices and Systems, Machine Structures, Discrete Mathematics Probability

EXPERIENCE

- **CalCentral, Berkeley IT** Berkeley, CA
Web Developer *Aug 2024 - Present*
 - **React Refactoring:** Transitioning CalCentral, official Berkeley hub for 40k+ students and faculty, to React from Angular.
 - **Code Optimization:** Improved page load times by 30% through refactoring legacy code and implementing code-splitting and lazy loading techniques.
 - **API Integration:** Collaborated with backend teams to integrate RESTful APIs, improving real-time data retrieval and synchronization for student services.
- **Ma Lab, UC Berkeley EECS & Physics Dept.** Berkeley, CA
Machine Learning Engineer & Lead Researcher *Aug 2023 - Present*
 - **ML & Research:** Utilized PyTorch for processing millions of Physics papers, implementing transformer models like SPECTER, BERT, and LLAMA for semantic analysis.
 - **Application Development:** Designed and deployed Flask-based machine learning application on AWS, ensuring scalability and high availability.
 - **Leadership:** Lead a team of undergraduate interns, upgraded critical lab infrastructure for optimal performance.
- **Integem, Engineering Team** Cupertino, CA
Test Engineer & Technical Staff *May 2024 - Aug 2024*
 - **Prototyping & Development:** Led the development, testing, assembly, and delivery of robotics development kits to teach circuitry, electronics, and computer vision to over 2000+ students in 15 locations across California.
 - **SoC and Microcontroller Computer Vision :** Programmed and debugged on various ESP and Pi microcontrollers and SoCs for automation and computer vision purposes.
- **Urban Waves Records** Remote, Brussels, Belgium
Contract Audio Engineer & Digital Audio Specialist *2019 - 2023*
 - **Production & Collaboration:** Produced tracks with over 10 million streams, collaborated with international artists and labels, like Urban Waves Records, Plygrnd Music
 - **Technical Skills:** Specialized in audio formatting, MIDI creation, and web development. Expertise in audio mastering and analog to digital conversion/recording

PROJECTS

- **SciRev.AI:** AI-powered tool for scientific proposal review, setting new standards for accuracy and efficiency.
- **Doorlock Toolkit:** Open-source platform for automating home IoT projects using Flask and Raspberry Pi.
- **roastify.me:** Chatbot for music recommendations based on user Spotify profiles.
- **AUDIOVSL:** Web app for converting and combining media formats for musicians.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, C++
- **Technologies:** PyTorch, SciKit, React, Flask
- **Audiovisual Skills:** Audio Engineering, Audiovisual Design
- **Tools:** Figma, Ableton, FL Studio, Adobe Suite