

# SHREE KHANGAONKAR

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## EDUCATION

### University of Southern California

*Major: Electrical and Computer Engineering/Physics B.S.*

Exp. Graduation: 2028

*Los Angeles, CA*

## JOB EXPERIENCE

### Sales Associate

*Ralph Lauren*

2025

*Livermore, CA*

- Assisted customers with product selection, fitting, and styling in a high-end retail environment.
- Managed transactions, inventory restocking, and store presentation with attention to brand image.
- Collaborated with team members to meet sales goals and ensure a high-quality customer experience.

### Custom Website Designer & Manager

*Freelance*

2021 – Present

*Remote*

- Designed, developed, and maintained custom websites for small businesses and individuals.
- Used HTML/CSS, JavaScript, and CMS platforms to create responsive, visually appealing user interfaces.
- Managed SEO, content updates, and client support across multiple ongoing projects.

## PROJECTS

### Experience Synesthesia

2025 – 2026

- A sensory-blending art & engineering installation exploring how we can blend auditory and visual senses.
- Designed interactive sound mixing podiums where audiences could alter music in real time while generating evolving projected artwork.
- Integrated dynamic lighting, engraved tactile surfaces, and multi-station interaction to create an immersive experience inspired by synesthetic perception.

### Custom Speaker Builder

2024 – Present

- Designed and built a high-fidelity speakers from scratch including enclosure modeling, analog crossover circuit design, and driver selection.
- Performed hands-on assembly with soldering, wiring, and acoustic testing using signal generators and oscilloscopes.

### Unconditional Audio Generator Model

2023 – 2024

- Built a neural network model to generate new audio clips based on a single audio input, using an unconditional generative architecture.
- Implemented a diffusion model that would train on images of music through spectrograms.
- Trained the model only on one piece of music at a time, allowing for little to no extra data required; can be done on any GPU.

### Investigate the Animals

2024

- Developed a Where's Waldo-style 2D game in Java where users search for hidden animals in a detailed scene.
- Implemented interactive elements, randomized layouts, and timer-based challenges to enhance gameplay.
- Used object-oriented design principles and Java Swing for user interface and rendering.

## LEADERSHIP AND ACTIVITIES

### Unmanned Aerial Vehicles Club

2021 – 2025

- Maintained a custom quadcopter as part of Amador Valley High School's UAV team for the International SUAS Competition.
- Team placed 2nd globally, outperforming top-tier universities such as **MIT, Stanford, Tsinghua**.

### Flute Section Leader

2021 – 2025

*Amador Valley High School Marching Dons*

*Pleasanton, CA*

- Led and trained over 50 musicians in California's largest high school marching band (over 300 members).
- Organized sectionals, coordinated marching, music, and choreography instruction.
- Helped raise \$30,000 for new instruments.
- Led the band to a 6th place finish at the California State Championships.

## TECHNICAL SKILLS

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**Programming:** Java, Python, Swift, LaTeX, C++

**Engineering:** Circuit design, analog systems, soldering, test equipment (oscilloscope, multimeter), acoustic modeling

**Soft Skills:** Leadership, problem solving, fast learner