

Snehil Kakani

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Software development, computer vision, music technology. San Jose, CA.

EDUCATION

- **California Polytechnic University, San Luis Obispo** *September 2025 - Present*
Merit Scholar. Coursework: Data Structures, Systems Programming, OOP & Design, Intro to Recording.
Activities: Audio Engineering Society, Game Development Club, Men's Beach Volleyball, CodeBox.
- **Lynbrook High School** *August 2021 - June 2025*
GPA 3.942. Coursework: AP Computer Science A, AP Physics C: Mechanics, AP Calculus BC, AP Statistics.
Activities: DevX Club, National Honor Society, Drama

RELEVANT SKILLS

- **Programming** · Python, Typescript, Java, Node.js, SQL, React, Next.js, Pytorch, Git, FastAPI.
- **Technical** · Full-Stack Web Development, Object-Oriented Programming, Machine Learning, Data Structures.
- **Soft Skills** · Strong Learning Mindset, Communication, Teamwork, Time Management, Problem-Solving.

EXPERIENCE

- **President / Vice President / Head of Frontend** *Lynbrook DevX Club, May 2022 - Jun 2025*
Led development of numerous club projects and taught variety of software-related topics weekly. Expanded club to include passion project development.
- **Freelance Website Developer** *Various Organizations, Jun 2021 - Present*
Developed and delivered tailored web solutions for organizations including EuclidLearn and Care for Our Common Home, providing professional and pro bono contributions.
- **Director of Technology & CS Instructor** *STEMist Education, Jan 2022 - Jan 2023*
Created organization website, led developer team. Taught CS curriculum to students.
- **Music Producer & Audio Engineer** *Freelance/Independent, Nov 2022 - Present*
Produced and released hip-hop albums across streaming platforms. Collaborated with artists, developed studio-quality music. Head of Sound for multiple theatre productions.

PROJECTS

- **GU-Net: Diffuse Glioma Segmentation Research** *Jun 2023 - Jul 2023*
Novel neural network architecture for segmenting diffuse gliomas in medical images under data and processing constraints, achieving 71.58% accuracy. Presented at UCSB and published in the Journal of Student Research. Developed with Pytorch & Jupyter.
- **Steam Force: Accessible STEAM Learning App** *Nov 2021 - Apr 2022*
Built an offline-capable STEAM learning app for underprivileged youth, focusing on accessibility. Won Honorable Mention at the 2022 Synopsys Science Fair. Developed with Next.js & Firebase.
- **FloodSafe: Atmospheric River Prediction** *Jan 2023 - Mar 2023*
Assembled a dataset from scratch and constructed a neural network for atmospheric river prediction, achieving over 95% accuracy. Deployed the model to EC2 and produced a web app for real-time results. Developed with Pytorch & FastAPI.
- **ProCo: Code Contest Platform** *Sept 2022 - Jun 2025*
Contributed to and maintained a competitive programming platform for 200+ users across 4 high schools. Engineered a remote grading server and a responsive UI. Developed with Next.js, Supabase, & Flask.
- **GenAlt: AI-Powered Web Accessibility** *Nov 2022 - Apr 2023*
Collaborated on an AI prototype improving web accessibility for the visually impaired. Received the Horn Entrepreneurship through Equity Award at the Diamond Challenge 2023. Developed with Typescript.