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 (Expected May 2028)*

BS in Computer Science. Merit Scholar. Coursework: Data Structures, OOP & Design, Intro to Recording. Activities: CodeBox, Audio Engineering Society, Indian Student Association, Hack4Impact.

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.