

Saurabh(Sunny) Jayaram

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Skills/Tools

Programming Languages: **Python, Node.js, HTML/CSS/JS, Java, TypeScript**

Machine Learning/Data Science: **PyTorch, OpenCV, NumPy, Pandas**

Tools/Frameworks: **React.js, Azure, Next.js, Git, Firebase, TailwindCSS, Spline3D**

Experience

- SRVUSD Course Catalog Semantic Search - <https://srvusd-search.vercel.app>
 - Custom data ingestion pipeline in python that parses course catalog into JSON
 - Leverages LLM embeddings and a Pinecone vector database to query documents based on how similar they are semantically. Both services run on highly distributed systems, leading to lightning fast searches
 - UI built using Next.js, React.js, TailWindCSS, SCSS
 - OpenRx - <https://openrx.vercel.app> - <https://devpost.com/software/openrx-v8whuo>
 - Won Best New Technology Hack @ CruzHacks 2023
 - Allows users to record and log prescriptions with the snap of a picture by leveraging state of the art AI
 - Built on Next.js framework, React.js and TailwindCSS for UI, Firebase for data persistence, Azure and OpenAI for image and text parsing
 - Building custom ML models using PyTorch
 - Projects in computer vision, audio classification, and NLP
 - Preparing data for ML models; ingestion pipelines, transformations, augmentations, data loaders
 - Experience using Azure ML studio to access hosted GPUs and data stores to train ML models
 - Sound Waves and Music: a Visual Explanation - <https://youtu.be/WgI4230d0FA>
 - Won "THE MOST POLISHED PROJECT" @Assemble Hackathon 2022
 - Mathematical Animations in Python to explain various concepts of signal processing, sound waves, and music
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Education

1. SIR for Computer Science and Engineering at UC Merced, awaiting waitlist decisions from UCSD, UC Davis
 2. California High School (2019-2023)
 - a. 4.26 weighted GPA
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Awards/Honors

1. Best New Technology Hack @ CruzHacks 2023
 - a. Project link - <https://openrx.vercel.app>
 - b. Devpost - <https://devpost.com/software/openrx-v8whuo>
 2. The Most Polished Project Award @ Assemble by Hackclub SF 2022
 - a. Video link - <https://youtu.be/WgI4230d0FA>
 3. #2 For Best Overall Project @ Tri-Valley Hacks 2022
 4. National Merit Commended Scholar - 2021
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Interests/Hobbies

- Music Production: I am a self taught pianist and classically trained vocalist. I have a few covers posted on my website
- Hackathons: I love competing at hackathons and meeting new people in tech
- Fitness: It's important for me to balance long hours of coding/study with intense physical activity