Saurabh(Sunny) Jayaram

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Skills/Tools

Programming Languages: Python, JavaScript, HTML/CSS, Java, TypeScript

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

Tools/Frameworks: React.js, Node.js, Azure, Next.js, Git, TailwindCSS, Spline3D, Docker, Flask, FastAPI

Databases: Firebase, MySQL, Pinecone Vector DB, LanceDB

Experience/Projects

- OpenRx https://devpost.com/software/openrx-v8whuo
 - Won Best New Technology Hack @ CruzHacks by UC Santa Cruz 2023
 - Led a team to design and develop a custom CRUD app for prescription management, featuring a photo scanner that leverages Computer Vision and LLM AI to automatically log prescriptions
 - Relevant Skills: Azure Cognitive Services, Next.js, React.js, UI/UX design, TailwindCSS, Firebase No-SQL, OpenAI LLM API, Asynchronous API calls in JavaScript, Prompt Engineering
- Bookmark.AI https://devpost.com/software/bookmark-ai
 - Won \$5000 LanceDB Prize @ AI x Product Hackathon SF (2023)
 - Leveraged semantic search + GPT-4 to update LLM with minimal hallucinations and cited sources
 - Developed a containerized Python REST API backend using Docker and FastAPI + React frontend
 - Built a Chrome Extension in pure HTML/CSS/JS that called backend with JS Fetch API
 - Managed a Github repo with multiple people committing to it, executing branching, rebasing, and merging
 - Relevant Skills: Product Ideation Using Modern Technologies, Vector Database/Vector Search, Prompt Engineering, Git/Github, FastAPI, React, Containerized APIs with Docker
- Next.js + Flask AI Security Server
 - Implemented a local surveillance server that monitors RTSP streams from my home's IP cameras
 - Fine tuned image classification CNN using PyTorch for person detection utilizing data ingestion pipelines, transformations, augmentations and data loaders, trained on cloud GPU's in Azure ML studio
 - Integrated custom backend API in Flask with React & Nextjs frontend that displays AI video analytics
 - Relevant Skills: PyTorch, Flask, Azure ML Studio, Cloud Computing, REST API Development, Internet Protocols, FFMPEG
- 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 concepts of signal processing, sound waves, and music
 - Relevant Skills: Linear Algebra, Python, Docker, Jupyter Notebook, Sound Engineering

Education

- 1. Software Engineering LPC (2023-2025) → UC or CSU transfer to pursue B.S in Software Engineering (2027)
- 2. California High School (2019-2023) 4.14 WGPA

Honors and Awards

- 1. \$5000 LanceDB Prize @ AI x Product Hackathon SF (2023) https://devpost.com/software/bookmark-ai
- 2. Best New Technology Hack @ CruzHacks by UCSC (2023) https://devpost.com/software/openrx-v8whuo
- 3. Best Solo Hack @Los Altos Hacks VII (2023) https://devpost.com/software/caloriesnap
- 4. The Most Polished Project Award @ Assemble by Hackclub SF (2022) https://youtu.be/WgI4230d0FA
- 5. BACF Special Award for Music Performance (2023)
- 6. #2 For Best Overall Project @ Tri-Valley Hacks (2022)
- 7. National Merit Commended Scholar (2021)