Saurabh(Sunny) Jayaram

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WORK EXPERIENCE

Supermark.ai (Startup) - *Founding Fullstack Engineer*   June 2023 - Present · San Francisco, CA
- Developed a containerized Python REST API backend using Docker and FastAPI + React frontend
- Designed and built Chrome Extension in pure HTML/CSS/JS that calls backend with JS Fetch API
- Managed a Github repo with multiple people committing to it, executing branching, rebasing, and merging
- Relevant Skills: FastAPI, React, Containerized APIs with Docker, Chrome Extension Development, Product Ideation Using Modern Technologies, Vector Database/Vector Search, Prompt Engineering, Git/Github

AI Engineers Dev (Internship) - *Software Engineering Intern*   June 2023 - Aug 2023 · Remote
- Developed Themu, an SDK for leveraging generative AI in modern Web Development Frameworks such as React
- Built scalable containerized backend REST API using Docker, FastAPI, Python and deployed on Azure VM
- Rate Tested backend reliability for up to 70,000 users and 1,500 requests per/s with 0% failure rate
- Relevant Skills: Python API Load Testing, Backend Deployment, Cloud Computing, Scalable Systems

HACKATHONS, HONORS, AND AWARDS

1. **1st Place at UC Berkeley's Cal Hacks** under InterSystems prize track - https://devpost.com/software/nutrisense
2. **$5000 LanceDB Prize** @ AI x Product Hackathon SF (2023) - https://devpost.com/software/bookmark-ai
3. **Best New Technology Hack** @ CruzHacks by UCSC (2023) - https://devpost.com/software/openrx-v8whuo
4. **Best Solo Hack** @ Los Altos Hacks VII (2023) - https://devpost.com/software/caloriesnap
5. **The Most Polished Project Award** @ Assemble Hackathon SF (2022) - https://youtu.be/WgI4230d0FA
6. Bay Area Creative Youth Foundation **Special Award for Music Performance** (2023) - Performance Video
7. **#2 For Best Overall Project** @ Tri-Valley Hacks (2022)
8. National Merit **Commended Scholar** (2021)

PROJECTS

OpenRx - GitHub - Devpost - Live Demo - *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: Next.js, React.js, UI/UX design, Azure Cognitive Services, TailwindCSS, Firebase No-SQL, OpenAI LLM API, Asynchronous API calls in JavaScript, Prompt Engineering**

MultiMed Vision+ - GitHub - DevPost - *1st Place at UC Berkeley's Cal Hacks under InterSystems prize track*
- Used Cloud GPUs to host an open source Multi-Modal LLM (LLAVA-2) and expose an inference endpoint
- Built FastAPI backend and Next.js + React frontend with retrieval augmented generation Chatbot Interface
- Accessed backend on a custom Raspberry Pi IoT smartwatch with built in LCD, Camera, and GPIO switch
- **Relevant Skills: Containerized Cloud Inference API, Raspberry Pi Development, ML Pipelining**

Sound Waves and Music: a Visual Explanation - GitHub - On YouTube
- 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. Computer Science - Diablo Valley College (2023-2025) - **GPA: 4.0/4.0**
2. UC Irvine Transfer Guarantee to pursue B.S in Computer Science (2025-2027)
3. California High School (2019-2023) - 4.14 WGPA

SKILLS/TOOLS

- Programming Languages: JavaScript, Python, C/C++, Java, TypeScript
- Machine Learning/Data Science: PyTorch, OpenCV, NumPy, Pandas, MediaPipe, Azure ML Studio
- Tools/Frameworks: React.js, Node.js, Azure, Next.js, Git, TailwindCSS, Spline3D, Docker, Flask, FastAPI
- Databases: Firebase, MySQL, Pinecone Vector DB, LanceDB