

Saurabh(Sunny) Jayaram

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EDUCATION

1. Computer Science - Diablo Valley College (2023-2025) - **GPA: 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

WORK EXPERIENCE

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. **2000\$ @ UCLA's LA Hacks** under Fetch.ai sponsor track - <https://devpost.com/software/agent-acumen>
2. **1st Place at UC Berkeley's Cal Hacks** under InterSystems prize track - <https://devpost.com/software/nutrisense>
3. **5000\$ LanceDB Prize @ AI x Product Hackathon SF (2023)** - <https://devpost.com/software/bookmark-ai>
4. **Best New Technology Hack @ CruzHacks** by UCSC (2023) - <https://devpost.com/software/openrx-v8whuo>
5. **Best Solo Hack @ Los Altos Hacks VII (2023)** - <https://devpost.com/software/caloriesnap>
6. **The Most Polished Project Award @ Assemble Hackathon SF (2022)** - <https://youtu.be/WgI4230d0FA>
7. Bay Area Creative Youth Foundation **Special Award for Music Performance (2023)** - [Performance Video](#)
8. **#2 For Best Overall Project @ Tri-Valley Hacks (2022)**
9. National Merit **Commended Scholar (2021)**

PROJECTS

Agent Acumen - [GitHub](#) - [Devpost Writeup and Video Demo](#)

- Won [Fetch.ai's](#) \$2000 sponsor prize @ UCLA's LA Hacks (2024)
- Developed a precision vision system in Python, augmenting a multi-modal LLM to gain both a semantic and accurate positional interpretation of the workspace
- 3D printed and Assembled a servo-controlled robot arm, which was autonomously controlled by the AI to dynamically execute low-level physical tasks
- Utilized Mac GPU using PyTorch to accelerate on-device neural networks for image processing and transcription
- **Relevant Skills: 3D Printing, Algorithmic Computer Vision, Multi-Modal AI, GPU Acceleration**

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 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: Cloud GPU hosting, Microcontroller Programming, ML Pipelining**

Workday Data ETL for Armanino LLP

- Developed a novel solution to download large full load data extracts from Workday for Armanino Data Warehouse
- Leveraged Azure Databricks Spark Notebooks to chunk and parallelize RaaS/WQL downloads using a distributed cluster, **bypassing Workday's memory limitation and increasing extract speed up to 4x**
- Proof on concept currently being developed into production
- Relevant Skills: Databricks, Workday, Apache Spark, SQL, PySpark

SKILLS/TOOLS

- Programming Languages: JavaScript, Python, C/C++, C#, Java, TypeScript, SQL, HTML/CSS/JS
- 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, Azure SQL