Arnav Sharma

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Student researcher focused on responsible AI systems that augment human capabilities through contextual human–AI grounding.

EDUCATION

Foothill High School   **GPA: 3.85/4.0**

High School Degree, 2023 – 2027

Awards and Honors

- **1st Place, Stanford ASES Competition** – Won 1st place at a 2 day entrepreneurship competition by pitching a startup idea to a panel of venture capitalists

- **3rd Place, ForgeHacks Consumer AI Hackathon** – Placed 3rd overall as the **only high school team** among college students and professionals by building an **AI productivity tracking tool**.

- **Scholar Athlete (Soccer)** – Earned for maintaining a high GPA while competing as a soccer athlete.

Research & Technical Experience

Deep24 AI   *San Francisco, CA*

Applied Research Intern   *September 2025 - October*

- Led internal research on **user-modeling systems**, exploring how AI agents can generate, validate, and persist structured propositions about users using recalibrated long-term memory
- Research and productionized **efficient pipelines** to deduplicate and merge user propositions, improving memory consistency and reducing redundant or conflicting user state representations
- Conducted structured customer interviews and synthesized qualitative feedback into **actionable product and model-level insights**, directly informing iteration on core AI workflows

Enki   *San Francisco, CA*

Product Intern   *February 2025 - May 2025*

- Performed **end-to-end quality assurance on AI-powered workflows**, testing backend logic, prompt behavior, and edge cases to improve system reliability, output consistency, and performance
- Researched and identified **50 high-potential B2B service providers** aligned with Enki's mission, conducting strategic fit analysis to drive targeted partnership outreach and new enterprise opportunities
- Designed **GenAI-driven projects** with a partner to automate investor and treasury reporting workflows for a leading real estate finance platform, streamlining complex operations and expanding Enki's enterprise offerings

Berkeley Business Academy for Youth   *Berkeley, CA*

Member   *July 2025 - July 2025*

- Selected as 1 of 50 students from 1,000+ applicants for a two-week program at UC Berkeley Haas
- Designed a **detailed technical architecture** for a residential carbon sequestration machine, outlining capture mechanisms, component interactions, and system feasibility.
- Pitched a full business plan and technical design of the carbon sequestration machine to a panel of VCs and startup founders

RESEARCH PROJECTS

[GUM (General User Modeling)](#) August 2025
Open-source contributor to a Stanford-developed user modeling framework; worked with a peer on designing and merging an observation batching approach to reduce LLM API usage.

[Gumbo](#) September 2025
Built an applied personal AI memory and context system on top of GUM, implementing proposition-based reasoning and efficient retrieval over inferred user context using SQLite FTS5/BM25. Designed system-level logic for organizing VLM observations so AI systems can generate user-facing suggestions based on those observations.

[Dialogum](#) December 2025
Built a cognitive grounding system extending GUM, focusing on ambiguity detection, clarification behavior, and lifecycle management of inferred propositions for research-oriented user modeling. Using the system as a basis for ongoing research comparing AI and human judgments on when contextual clarification is required.

LEADERSHIP & EXPERIENCE

Pleasanton City Government *Pleasanton, CA*
Youth Commissioner, *October 2025 - Present*
- Represent **19,000+ youth residents** in advisory meetings with city officials, contributing youth perspectives on education, public spaces, and civic engagement
- Evaluate and propose **youth-focused initiatives and policy recommendations**, collaborating with fellow commissioners and city staff to improve community programs

Pleasanton City Kids Camp *Pleasanton, CA*
Leader in Training *June 2024 - August 2024*
- Supported youth programming and outdoor activities, taking responsibility for group coordination and daily logistics.
- Responded to safety incidents and participant needs during activities, demonstrating calm decision-making and accountability in real-time settings.

Foothill High School's StartUp Club *Pleasanton, CA*
Vice-President *November 2024 - Present*
- Led and organized student entrepreneurship initiatives, growing the club and structuring member roles.
- Taught lessons on software, economics, and applied business concepts, supporting multiple student-led startups.
- Helped 10 businesses launch out of the club, with the businesses cumulatively doing $2,000+ in revenue

SKILLS

Programming: Python, JavaScript, Java

Web & APIs: Rest APIs, HTML/CSS, FastAPI

Data & Systems: Local persistence and retrieval, API-based data access

AI Systems: LLM APIs (OpenAI, Gemini, Claude), AI system prompting, user modeling, grounding