

Harish Chaurasia

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EDUCATION

Arizona State University, Tempe, AZ

Master's in Computer Science (AI/ML)

GPA: 3.83 | May 2026

Relevant Courses: Machine Learning, Artificial Intelligence, Natural Language Processing, Cloud Computing

Bachelor's in Computer Science

GPA: 3.69 | May 2025

Relevant Courses: Data Structures & Algorithms, Human Computer Interaction, Software Engineering, DBMS

Minors: Game Development, Popular Music

EXPERIENCE

Software Developer, MSN School, Ira A. Fulton Schools of Engineering

Dec 2023 – Present

- Delivered simulation modules in collaboration with Los Alamos National Lab & SMEs, improving training accuracy by **30%**.
- Improved nuclear-material handling **training efficiency** by **15%** by optimizing C++ digital-twin pipelines and simulation logic.
- Built high-fidelity Unreal Engine simulation interfaces with real-time data feedback, reducing operational errors and increasing training engagement.

VR Developer, Laboratory for Energy and Power Solutions (LEAPS)

Jan 2023 – Oct 2023

- Developed AR/VR microgrid training modules adopted by **50+** institutions and **300+** students for scalable, gamified power-systems education.
- Automated learning-content workflows, reducing manual preparation time by **25%**.

Software Lead, Shonto Solar Engineering Team, EPICS, ASU

Jan 2022 – Dec 2023

- Led a 6-member engineering team to build an IoT-based solar microgrid monitoring tool supporting **500+** residents in the Navajo community of Shonto, AZ.
- Coordinated with faculty mentors, SMEs engineers, and community partners to deliver reliable, stakeholder-aligned solutions.
- Established agile processes, reducing development cycle time by **20%**.

PROJECTS

KnowledgeBrain – AI-Powered Personal Learning Platform

Nov 2025 – Present

- Developed a multimodal RAG-based platform enabling users to upload documents and receive conversational, personalized explanations.
- Designed an ambient-learning UI for structured topic navigation, conceptual reasoning, and guided study workflows.

AI Agent Privacy Benchmarking (NLP Research)

Aug 2025 – Present

- Developed adversarial test suites evaluating LLM exposure to hidden prompts, unsafe responses, and injection attacks.
- Designed distributed evaluation tools to measure robustness, reliability, and safety metrics.

LyricalAI – Multimodal Songwriting Assistant

May 2025 – July 2025

- Built an end-to-end generative AI system integrating GPT-2 and Whisper; model reached **35+** downloads on Hugging Face.
- Designed a responsive React/Tailwind interface and a recommendation engine **trained** on **350k+** songs.

MatchABLE – Inclusive Workforce Matching Platform

Spring 2025

- Implemented NLP-powered resume ranking and accessibility scoring algorithms using Scikit-learn and spaCy.
- Built a full-stack platform with React/Next.js, Node.js, and MongoDB with admin dashboards for inclusion analytics.

LEADERSHIP

Technical Officer & Treasurer, Google Developer Student Club, ASU

Jan 2022 – Present

Mentored **750+** students through workshops on AI/ML, cloud, and full-stack development; organized hackathons and events increasing technical participation by **40%**.

Core Officer, PIERA (India Policy & Economy Research Club)

2024 – Present

Mentored **50+** students in geopolitics and policy with emphasis on US–India collaboration. Led tech-policy research, analysis, and seminars on India's economic and technology landscape.

TECHNICAL SKILLS

Languages: Python, C++, Java, HTML5, CSS, JavaScript/TypeScript, MySQL

AI/ML: PyTorch, TensorFlow, Scikit-learn, LLMs, GenAI, LLM Pretraining & Fine-Tuning

FullStack: FastAPI, Node.js, Django, PostgreSQL, MongoDB, React, Angular, REST APIs, Next.js, TailwindCSS

Systems: Docker, Kubernetes, AWS, Firebase, Linux/Unix, Bash

Tools: Git/GitHub, CI/CD, Unreal Engine, Unity, Agile/Scrum