

# 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 30%.

### 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