

Harish Chaurasia

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EDUCATION

Arizona State University, Tempe, AZ

Masters in Computer Science

GPA: 3.83 | May 2026

Bachelors in Computer Science

GPA: 3.69 | May 2025

Minors: *Games Development, Pop Music*

Relevant Coursework: *Natural Language Processing, Machine Learning, Artificial Intelligence, Cloud Computing, Software Engineering, Object Oriented Programming, Human-Computer Interaction, UI/UX, QA & Testing, Agile, Scrum, Database Management*

EXPERIENCE

Software Developer, School of Manufacturing Systems and Networks, ASU

Dec 2023 - Present

- Optimized C++ code, digital twins, and interactive UIs to simulate industrial workflows, improving training efficiency by 15%.
- Built cross-platform simulations in Unreal Engine with real-time feedback systems, reducing errors and enhancing engagement.
- Collaborated with Los Alamos National Lab on nuclear material handling simulations, increasing operational accuracy by 30%.

AR/VR Developer & Researcher, LEAPS, ASU

Jan 2023 - Oct 2023

- Developed AR/VR training modules for military microgrid systems using Unity, ARKit, and Vuforia.
- Integrated microgrid hardware simulations into training software, ensuring accuracy and reliability.
- Automated content workflows and digital learning tools, reducing manual training workload by 30%.

Software Lead, EPICs Team, ASU

Jan 2022 - Dec 2023

- Directed a 6-member team to design and deliver community-focused software solutions.
- Implemented agile workflows and version control, reducing development cycle times by 20%.
- Coordinated with faculty and stakeholders to align technical execution with project goals.

PROJECTS

LyricalAI - Multimodal AI Songwriting Assistant

AI tool generating lyrics and music suggestions from text/audio prompts.

- Integrated GPT-2 and Whisper models with FastAPI for real-time text generation and audio transcription.
- Designed a clean, responsive frontend with React and TailwindCSS for seamless creative interaction.
- Added chord/key recommendation engine trained on 10k+ songs for mood-based composition.

MatchABLE – Inclusive Workforce Matching Platform

AI-powered job matching platform connecting individuals with disabilities to inclusive employers.

- Developed NLP-based resume parser and accessibility ranking algorithm in Python.
- Developed responsive frontend with React and Next.js; scalable backend with MongoDB/Node.js.
- Designed admin dashboard with analytics for tracking diversity and inclusion metrics.

LEADERSHIP

Technical Officer & Treasurer, Google Developer Students Club, ASU

Jan 2022 - Present

Led 15+ workshops on Full Stack, Cloud Computing, AI/ML etc. organized hackathons and events, and managed budgets/resources, impacting 500+ students and boosting participation by 40%.

TECHNICAL SKILLS

Languages & Databases: Java, Python, C++, C#, JavaScript, TypeScript, PHP, MongoDB, DynamoDB, PostgreSQL

Frameworks: Node.js, React, Next.js, Angular, Vue.js, React Native, TailwindCSS, Django, Flask, Three.js

AI/ML: Scikit-learn, PyTorch, TensorFlow, Hugging Face, NLP, LLMs

Tools: AWS, Firebase, Docker, Git/GitHub, Linux