Harish Chaurasia

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EDUCATION

Arizona State University, Tempe, AZ

Masters in Computer Science   May 2026
Relevant Coursework: *Machine Learning, Artificial Intelligence, Cloud Computing, Data Visualization, Software Engineering, Object-Oriented Programming, Human-Computer Interaction, UI/UX, QA & Testing, Agile, Scrum, Database Management*

Bachelors in Computer Science   May 2025
Minors: *Games Development, Pop Music*   **GPA:** 3.6

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, Node.js, JavaScript, TypeScript, PHP
Frameworks: React, Next.js, Angular, Vue.js, Django, Flask, React Native, TailwindCSS, Scikit-learn, PyTorch, TensorFlow
Tools: Linux, Git, GitHub, AWS, Firebase, MongoDB, DynamoDB, PostgreSQL, REST APIs, Docker, Unity, Unreal Engine

EXPERIENCE

Software & Games Developer, School of Manufacturing Systems and Networks, ASU   **Dec 2023 – Present**

- Developed and optimized C++ algorithms, digital twins, and interactive VR/AR interfaces to simulate industrial training workflows, increasing training efficiency by 15%.
- Built cross-platform 3D training simulations using Unreal Engine; designed gameplay loops and integrated real-time feedback systems, boosting engagement.
- Collaborated with Los Alamos National Lab on secure nuclear material handling simulations, improving operational training accuracy by 30%.

AR/VR Developer, Laboratory for Energy and Power Solutions, ASU   **Jan 2023 – Oct 2023**

- Built AR/VR training modules for military microgrid systems using Unity, ARKit, and Vuforia.
- Integrated microgrid hardware simulation into Unity software, ensuring real-time performance accuracy.
- Streamlined content creation workflows by automating asset generation and deployment pipelines, reducing manual workload by 30%.

PROJECTS

Lyrical AI – Multimodal AI-Powered Songwriting Assistant

- Developed a full-stack AI assistant that generates song lyrics from text or audio prompts and suggests chord progressions and musical keys based on mood.
- Integrated GPT-2 and Whisper models using Hugging Face and FastAPI; enabled real-time text generation and audio transcription.
- Architected modular backend; frontend built with React and TailwindCSS for a clean, responsive UI.
- Focused on real-world utility for musicians, applying NLP, music theory, and scalable ML workflows.

MatchABLE – Inclusive Workforce Matching Platform

- Engineered an AI-based job matching platform to connect individuals with disabilities to inclusive employers.
- Developed Python-based resume parsing and scoring algorithms with NLP and accessibility ranking.
- Built dynamic frontend using React and Next.js with a MongoDB/Node.js backend; deployed on cloud for scalability.

LEADERSHIP

Technical Officer & Treasurer, Google Developer Students Club, ASU   **Jan 2022 – Present**

- Delivered technical workshops on React, Django, Docker, and Git to enhance hands-on learning.
- Led planning for hackathons and speaker sessions, increasing member engagement and event participation.