

Harish Chaurasia

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EDUCATION

Arizona State University, Tempe, AZ

May 2025

Bachelor of Science in *Computer Science*, Dean's List (Spring 2022)

Certificate in *Game Development* | Minor in *Popular Music*

TECHNICAL SKILLS

Programming: Java, Python, C++, C#, HTML, CSS, JavaScript, ReactJS, NextJS, Angular, VueJS, React Native, TailwindCSS, ThreeJS

Database: SQL, Firebase, MongoDB, DynamoDB, PostgreSQL, Vertica

Tools and Technologies: AWS, Git, GitHub, Jira, Pandas, NumPy, Smartsheet, XCode, Android Studio, Unity, Unreal Engine

EXPERIENCES

School of Manufacturing Systems and Networks, Arizona State University, Tempe, AZ

Dec 2023

- Current

Software & Game Simulation Developer

- Developed and implemented C++ code for game programming, focusing on efficiency and performance optimization, leading to a 15% increase in CNC game performance.
- Worked in collaboration with Los Alamos National Laboratory (LANL) on a project to build virtual simulations for nuclear material handling and management, improving work efficiency by 30%.
- Collaborated with a cross-functional team, contributing to the development of virtual digital twins of CNC machines and VR/AR walkthroughs, aimed at revolutionizing workforce development and training in the manufacturing sector.
- Conceptualized and designed captivating game levels and environments, leveraging technical expertise to build engaging, dynamic worlds that enhance player immersion and narrative depth.

Laboratory for Energy and Power Solutions, Arizona State University, Tempe, AZ

Jan 2023 – Oct 2023

AR/VR Developer & Workforce Dev Researcher

- Pioneered the development and execution of innovative Unity packages, utilizing cutting-edge AR and VR technologies like ARKit and Vuforia to craft immersive 2D and 3D training modules for Military Resiliency in Microgrids and Electric Subsystems. These modules focused on Microgrid and Electrical subsystems, enhancing training efficacy and engagement.
- Facilitated workforce development by designing coursework that significantly alleviated the team's workload by approximately 30%. This innovative approach not only improved efficiency but also paved the way for higher-quality Power Grid training materials.
- Engaged in Microgrid Training activities, playing a pivotal role in Content Development and seamless integration of Microgrid hardware components. Collaborated across teams to ensure the holistic development of effective training materials.

PROJECTS

Interactive Portfolio Website

- Designed and developed a dynamic and visually appealing portfolio website to showcase my skills and projects, ensuring a seamless user experience across devices.
- Utilized **Next.js** with **React Fiber**, **Three.js**, **Vanta.js**, and **Tailwind CSS** for efficient and responsive styling and interactive backgrounds.
- Integrated smooth scrolling, dynamic content loading, and responsive design. Ensured accessibility and performance optimization.

VNC Public School Website

- Designed the website in **Figma**, focusing on user experience and visual appeal, with a built-in image carousel for showcasing images.
- Implemented **API** routes to actively fetch and display images, enhancing user engagement.
- Developed the website using **Next.js** and **Tailwind CSS** to ensure a fully responsive design.

Susinator (Web App)

- Co-developed a user-friendly frontend with **Nextjs** and **ChakraUI** for building a contract document analysis web app.
- Utilized Amazon **AWS**, **DynamoDB** and **RapidAPI** for the backend to enable efficient file handling and contract simplification.
- Collaborated with the team, with version control on Git and **GitHub** and improved the projects interactive response time.

LEADERSHIP EXPERIENCES

Google Developer Students Club (GDSC), Arizona State University, AZ

Jan 2022 - Present

Core Officer

- Organized weekly meetings and hosted workshops and Hackathons.
- Represented the club in different events at ASU and developed strategies to enhance membership count by 15%.
- Enhanced the reach of the club to a broader audience and organized learning and career mentoring sessions.

Devils DJing Club, Arizona State University, AZ

Jan 2022 - Present

President, Producer, and DJ

- Organized weekly meetings, hosted Music workshops, and DJing and Production sessions.
- Represented the club in different cultural and varsity events at ASU enhanced membership count by 40%.
- Collaborated with different ASU Clubs, Societies, and Student Organizations on different events and get-togethers.