

Harish Chaurasia

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EDUCATION

Arizona State University, Tempe, AZ

Bachelor of Science in Computer Science

Minor: Game Development, Pop Music

May 2025

Relevant Coursework: Data Structures & Algorithms, Database Management, Software Engineering, UI/UX Design

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, C#, JavaScript, TypeScript

Web & App Frameworks: ReactJS, NextJS, Angular, VueJS, Django, Flask, React Native, ThreeJS, TailwindCSS

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

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

EXPERIENCE

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

Dec 2023 - Current

Software & Game Simulation Developer

- Developed and optimized **C++ algorithms** to boost CNC game performance by 15%.
- Built and implemented **virtual digital twins** and **VR/AR controls** to support immersive, technical training environments.
- Utilized cross-platform C++ and Unity to construct interactive, visually dynamic game levels enhancing user engagement.
- Collaborated with Los Alamos National Laboratory to code **virtual simulations** for nuclear material handling, improving efficiency by 30%.

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

Jan 2023 – Oct 2023

AR/VR Developer & Workforce Development Researcher

- Developed **interactive coursework** for microgrid training, enhancing technical depth and usability, while also contributing to the **website development** for the laboratory to improve accessibility and resource distribution for training materials.
- Integrated **microgrid hardware simulation** components into training software, ensuring technical accuracy and reliability
- Streamlined content development for Power Grid training, decreasing manual workload by 30% through automated processes.
- Engineered Unity **AR/VR modules** using **ARKit** and **Vuforia**, creating scalable training applications for military microgrid systems.

PROJECTS

Interactive Portfolio Website

- Designed and developed a visually engaging portfolio website using **Figma**, **React** and **NextJS** showcasing my skills and projects, ensuring a seamless, cross-device user experience.
- Built using **Next.js**, **React Fiber**, **Three.js**, **Vanta.js**, and **Tailwind CSS** to deliver efficient styling, interactive backgrounds, and high performance.
- Integrated smooth scrolling, dynamic content loading, and responsive design, achieving optimized performance and full accessibility compliance across platforms.

VNC Public School Website

- Designed the website layout and flow in **Figma**, prioritizing user experience, with an image carousel to enhance visual appeal and interactivity.
- Implemented **Next.js API routes** for real-time image fetching and display, fostering user engagement through live updates.
- Developed a fully responsive site with **Next.js** and **Tailwind CSS**, ensuring accessibility and usability across various devices and screen sizes.

Susinator (Web App)

- Co-developed an intuitive frontend in **Next.js** and **ChakraUI** for a web app streamlining contract document analysis and management.
- Leveraged **Amazon AWS**, **DynamoDB**, and **RapidAPI** on the backend for optimized file handling, improving data retrieval speed.
- Collaborated with the team, with version control on Git and **GitHub** and improved the projects interactive response time.

LEADERSHIP

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

Jan 2022 - Present

Treasurer, Core Officer

- Increased membership by 15% through strategic outreach and engaging events.
- Represented the club at ASU events, facilitating networking and career mentoring sessions.
- Led weekly meetings, workshops, and hackathons to promote coding skills and tech knowledge.

Devils DJing Club, Arizona State University, AZ

Jan 2022 - Present

President, Producer, and DJ

- Organized weekly meetings, music workshops, and DJing and Music Production sessions.
- Led the club's presence at cultural and varsity events, building a strong music community.
- Boosted membership by 40% through collaborations with ASU clubs for joint collaborative events.