Swayam Omprakash Singh

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PROFESSIONAL SUMMARY

High-performing Computer Science undergraduate (CGPA: 9.27) with strong expertise in Full Stack Development and AR/VR Engineering. Proven track record in open-source contributions and building scalable applications using Next.js and Unity. Passionate about solving complex algorithmic problems and optimizing software for performance.

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript, C#, SQL
Frontend: React.js, Next.js, Tailwind CSS, GSAP, HTML5, CSS3
Backend & Databases: Node.js, Express.js, MongoDB, MySQL, Supabase, Firebase
Tools & Platforms: Unity, Git/GitHub, Vercel, Postman, VS Code
Core Concepts: Data Structures & Algorithms, OOP, Operating Systems, Quantum Computing, AR/VR

EXPERIENCE

Unity Developer   Oct 2025 – Present
AR/VR Club GHRCEM   *Pune, India*
- Co-engineered immersive AR/VR applications using Unity and C#, focusing on interactive user experiences.
- Spearheaded the development of a 3D FPS shooting game specifically optimized for the Meta Quest 2 hardware.
- Optimized 3D assets and rendering pipelines to ensure high frame rates and lightweight performance on standalone VR headsets.

PROJECTS

3D FPS Game for Meta Quest 2 | *C#, Unity, XR Interaction Toolkit*
- Developed a fully immersive First-Person Shooter (FPS) game tailored for VR environments.
- Implemented complex gameplay mechanics and physics using C# scripts and Unity's physics engine.
- Optimized memory usage and draw calls to ensure smooth performance on mobile VR hardware.

AR/VR Club Official Website | *Next.js, Tailwind CSS, Supabase, Firebase*
- Designed and deployed the official club platform to showcase events, projects, and team portfolios.
- Integrated Supabase for backend database management and Firebase for secure user authentication.
- Implemented SEO best practices and responsive UI, increasing discoverability and accessibility across devices.

StudyNotion - EdTech Platform | *React.js, Node.js, Express.js, MongoDB*
- Architected a full-stack learning management system enabling seamless student-instructor interaction.
- Integrated Razorpay payment gateway for secure course purchases and enrollment handling.
- Built RESTful APIs to manage user data, course content, and authentication flows efficiently.

EDUCATION

GH Raisoni College of Engineering and Management   Pune, India
Bachelor of Technology in Computer Science | ***CGPA: 9.27***   *Aug 2023 – Present*

ACHIEVEMENTS

Open Source Contributor: Successfully merged PR in **OpenStreetMap**; authored 2 pull requests for **AsyncAPI** (currently under review).

Google Cloud Arcade Legend: Achieved "Legend Tier" in Cohort 1 and Cohort 2 for cloud skills proficiency.

Data Structures & Algorithms: Solved 85+ algorithmic problems on LeetCode using C++/Java.