

KAUSTUBH AGRAWAL

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EDUCATION

VIT Bhopal University B.Tech in Computer Science- 8.32 CGPA	Bhopal, India Sep 2022 – May 2026
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TECHNICAL SKILLS

Languages: C++, Java, C#, JavaScript, Python
Backend: Node.js, Express, REST APIs, JWT, Stripe API
Frontend: React, Next.js, Tailwind CSS, Context API
Tools: Git, VS Code, Unity, MySQL (Basics), NoSQL (Basics: MongoDB)

PROJECTS

FPSTarget - First-Person Shooter Target Practice System Unity FPS Mechanics Project <ul style="list-style-type: none">Developed a Unity-based FPS training system with smooth player movement, dynamic target interaction, and a modular scoring framework.Engineered configurable weapon mechanics including 2 fire modes, recoil patterns, ammo systems, and realistic visual effects for immersive experience.Optimized raycasting and camera controls to maintain 60+ FPS on low-end machines and ensure responsive aim precision.	May 2025 – Present Unity, C# GitHub
Mini Game Site - Web-Based Game Platform React/Next.js Web Arcade <ul style="list-style-type: none">Built a responsive full-stack web platform featuring reimagined arcade classics (Snake, Tic-Tac-Toe, Breakout), achieving 100% mobile compatibility and 60+ FPS canvas gameplay.Implemented secure authentication and profile management using NextAuth.js and MongoDB, supporting real-time score tracking for 3+ games with scalable session handling.Leveraged Tailwind CSS to deliver an adaptive dark mode UI and organized the codebase into 20+ reusable components across game modules, reducing UI development time by 40%.	May 2025 – Present Next.js, React, TypeScript, Tailwind CSS GitHub
FoodPrep - Full Stack Food Delivery Application Full Stack Web Application <ul style="list-style-type: none">Architected a comprehensive food delivery platform with separate user and admin interfaces, resulting in a 92% user satisfaction rate during testing.Engineered modular frontend using React 19 and Context API, enabling reusable components and scalable state management across views.Designed scalable RESTful APIs using Express.js, integrating JWT-based auth and Stripe payments, enabling 200+ concurrent test transactions with isolated service components.	Mar 2025 – Apr 2025 MERN, Stripe API Live Demo

CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

<ul style="list-style-type: none">Finalist at Smart India Hackathon 2024 – developed low-cost myoelectric prosthetic with 85% gesture recognition accuracy.Explored 3D modeling with Blender – designed custom low-poly environments and character assets.Competitive gamer in FPS titles like Valorant and CS2 – enhanced real-time strategic thinking, team collaboration, and performance under pressure.
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ADDITIONAL INFORMATION

<ul style="list-style-type: none">Languages: Fluent in English and Hindi.Hobbies: Playing video games, solving logic puzzles like Sudoku, and speed-solving Rubik's Cube.
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