

KAUSTUBH AGRAWAL

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EDUCATION

VIT Bhopal University B.Tech in Computer Science- 8.35 CGPA	Bhopal, India Sep 2022 – May 2026
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TECHNICAL SKILLS

<ul style="list-style-type: none">• Languages: C++, C#, Java, JavaScript, Python• Backend: Node.js, Express, REST APIs, JWT• Frontend: React, Next.js, Tailwind CSS, Context API• Tools: Git, VS Code, Unity, MySQL (Basics), NoSQL (Basics: MongoDB)	
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PROJECTS

FPSTarget - First-Person Shooter Target Practice System Unity FPS Mechanics Project	May 2025 – Present Unity, C# GitHub
<ul style="list-style-type: none">• Developed a Unity-based FPS training system with smooth player movement, 2 different types of 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.	
Mini Game Site - Web-Based Game Platform React/Next.js Web Arcade	May 2025 – Present Next.js, React, TypeScript, Tailwind CSS GitHub
<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%.	
FoodPrep - Full Stack Food Delivery Application Full Stack Web Application	Mar 2025 – Apr 2025 MERN, Stripe API Live Demo
<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.	

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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