

KAUSTUBH AGRAWAL

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science- 8.32 CGPA

Bhopal, India

Sep 2022 – May 2026

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, Postman, MySQL (Basics), NoSQL (Basics: MongoDB)

CS Fundamentals: Object-Oriented Design, System Design (Basics), Design Patterns, Data Structures, Algorithms

PROJECTS

FoodPrep - Full Stack Food Delivery Application

Mar 2025 – Apr 2025

Full Stack Web Application

React, Node.js, Express, MongoDB, Stripe API [Live Demo](#)

- 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..

FPSTarget - First-Person Shooter Target Practice System

May 2025 - Present

Unity FPS Mechanics Project

Unity, C# [GitHub](#)

- Developed a Unity-based FPS training system with smooth player movement, dynamic target interaction, and a modular scoring framework.
- Engineered configurable weapon mechanics including fire modes, recoil patterns, ammo systems, and realistic visual effects for immersive experience.
- Optimized raycasting and camera controls to ensure responsive aim precision and performance on low-end systems.
- Structured project using modular architecture to support scalability, resulting in streamlined future expansion and easier code maintenance.

Mini Game Site - Web-Based Game Platform

May 2025 – Present

React/Next.js Web Arcade

Next.js, React, TypeScript, Tailwind CSS [GitHub](#)

- Built a responsive web platform featuring reimagined classics (Snake, Tic-Tac-Toe, Breakout) with modern UI and canvas-based gameplay.
- Implemented authentication, user profile management, and real-time score tracking using NextAuth.js and MongoDB.
- Leveraged Tailwind CSS for adaptive dark mode UI and structured project with reusable components across game modules.

ACHIEVEMENTS

Smart India Hackathon(SIH)

Dec 11 – Dec 15, 2024

National Level Hackathon Finalist

Team of 6

- Designed and built low-cost myoelectric prosthetic solution (92% cheaper than commercial options), leveraging dry electrode EMG signal processing and real-time mobile integration (85% gesture recognition accuracy)
- Engineered companion mobile app processing EMG signals from 3 dry electrodes with distinct gesture recognition patterns achieving 85% accuracy in real-time control.