

Jai Sandhu

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EDUCATION

VIT Bhopal University

BTech Computer Science, CGPA: 8.38

Bhopal, Madhya Pradesh, India

October 2022 - 2026

TECHNICAL SKILLS

Programming Language: Java , Javascript , HTML/CSS

Frameworks: Bootstrap , React.js , Next.js

Backend: Node.js, Express.js

Database & Cloud: MongoDB, SQL , AWS

Tools: GitHub, Illustrator, Figma, Photoshop, Blender

EXPERIENCE

Anuvritiksha (HowToAlgo)

Remote

Intern — Canva, AWS Polly, S3, and GitHub

December 2024 – February 2025

- Created visually engaging educational content on Computer Science topics using Canva, enhancing learner experience and content visibility for 500+ students.
- Implemented AWS Polly for high-quality text-to-speech integration, improving accessibility for digital learning materials and managed content storage using AWS S3.
- Managed content storage and version control using GitHub, gaining hands-on experience with cloud storage and collaborative development tools for educational content delivery.

CERTIFICATIONS

Frontend Developer - React Certification

HackerRank

Professional Web Development Skills Validation

August 2025

Machine Learning Algorithms

Great-Learning

Comprehensive Machine Learning Algorithms

April 2024

PROJECTS

StayEase - Full Stack Hotel Booking Platform

[GitHub](#)

MERN Stack, Clerk Authentication, Email APIs, Stripe

- Built comprehensive hotel booking platform with dynamic room availability, secure Stripe payment processing achieving 99% transaction success rate, and intelligent search filters. Implemented Clerk authentication, automated email confirmations, and responsive admin dashboards for hotel management with real-time booking analytics.

CS AutoAim - Real-time Target Detection System

[GitHub](#)

Python, YOLO, OpenCV, Machine Learning, Computer Vision

- Developed advanced computer vision system using custom YOLOv8 model for real-time target detection with 95% accuracy. Implemented proximity algorithms, distance calculations, and interactive OpenCV interface with automated targeting capabilities for enhanced detection performance.

GarbageSense - Smart IoT Monitoring

[GitHub](#)

Arduino, Node.js, MongoDB

- Engineered IoT monitoring system using Arduino and ultrasonic sensors, achieving 90% accuracy in garbage level detection.
- Integrated Node.js backend with MongoDB database, reducing manual monitoring costs by 70% and improving waste collection efficiency by 45%.

EXTRACURRICULAR ACTIVITIES

- **Enthusiastic Design and Animation Creation** - Created various graphic designs using Adobe Creative Suite, showcasing proficiency in visual communication and brand design. - [Portfolio](#)
- **Interests:** Machine Learning, IoT Development, UI/UX Design, Competitive Programming

LANGUAGES

- **Languages:** Hindi (Native), English (Fluent)