

RAHUL GEHLOT

(+91) 787-867-9240
rahulgehlot6044@gmail.com
github.com/SolarisXD
linkedin.com/in/rahulgehlot

EDUCATION	VIT Bhopal University <i>B.Tech in Computer Science & Engineering (AIML)</i> • CGPA: 8.59/10.00	Bhopal, India 2022.10- 2026.09 (<i>expected</i>)
PROJECTS	SwapHub <i>Full Stack Developer</i> • Launched a marketplace empowering 500+ students to buy, sell, and exchange, improving campus engagement by 40% . • Secured transactions via OAuth/JWT, encrypted payments, and fraud prevention (Node.js, Python, MongoDB). • Implemented personalized product recommendations using user activity tracking, increasing user retention by 25% . • Crafted UI/UX (Figma) for 40% higher engagement , built responsive front-end with React, TypeScript, HTML/CSS , and integrated REST APIs .	2024.07 - 2025.04
	Image Captioning <i>Team Lead, Machine Learning Developer</i> • Constructed a Flask web application leveraging OpenCV for real-time image captioning , optimizing site speed and achieving 500+ weekly active users . • Initiated the creation of a bespoke 200-word vocabulary and novel tokenization strategies to drive measurable gains in model quality and performance. • Fine-tuned a pre-trained CNN-RNN architecture on custom image-caption datasets, improving caption accuracy and reducing semantic errors by 18% . • Pioneered a Flask-based web app integrating OpenCV, supporting 700+ image uploads and real-time generation of 1,200+ AI captions for over 500 users. • Enhanced accessibility for students with visual or learning challenges by 30% through automated captioning solutions.	2024.02 - 2024.05
	PyRush <i>Team Lead, Game Developer</i> • Engineered Py-Rush, a 2D platformer with an intuitive Mario Maker-inspired level editor, enabling users to create, save, and play over 100+ custom levels , ultimately boosting user engagement by 40% . • Implemented sophisticated game mechanics , including advanced enemy AI , precise camera tracking, and intricate animation systems, resulting in a 20% improvement in gameplay fluidity . • Conducted significant performance optimizations , achieving a 15% reduction in level load times for enhanced responsiveness and user satisfaction. • Added keyboard shortcuts and save/load features to enhance gameplay convenience.	2023.08 - 2023.11
CERTIFICATIONS	• Blockchain Developer, IBM Career Education Program Invented Proof for secure certificate verification via blockchain. • Adobe UI & UX (Graphic Design), Ethnus via Codemitra Applied UI/UX principles to design SwapHub's user interface. • Privacy and Security in Online Social Media, NPTEL Awarded Elite+Silver for expertise in social media privacy and security. • HTML,CSS,and Javascript for Web Developers, Coursera Built a restaurant site with recipe finder using HTML, CSS, and JavaScript.	2025.02 - 2025.04 2025.02 - 2025.04 2024.01 - 2024.05 2023.08 - 2023.12
SKILLS	Languages: English, Hindi. Programming: Python, C++, MATLAB, Java, HTML, CSS, SQL. Developers Tools: GitHub, Git, VS Code, Visual Studio, ReactJs, ThreeJS, Django.	
COURSEWORK	Data Structures, Computer Vision, Operating Systems, Computer Networks, Database Management, Deep Learning, Linear Algebra, Computer Architecture.	