

# RAHUL GEHLOT

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|----------------|---|--|
| EDUCATION      | <b>VIT Bhopal University</b><br><i>B.Tech in Computer Science &amp; Engineering (AIML)</i><br>• CGPA: 8.57/10.00  | Bhopal, India<br>2022.10- 2026.09 ( <i>expected</i> )                            |
| PROJECTS       | <b>SwapHub</b>   Full Stack Developer<br>• Launched a marketplace empowering 500+ students to buy, sell, and exchange, improving campus engagement by 40%.<br>• Secured transactions via <b>OAuth/JWT, encrypted payments, and fraud prevention</b> (Node.js, Python, MongoDB).<br>• Implemented personalized product recommendations using user activity tracking, increasing user retention by 25%.<br>• Crafted UI/UX (Figma) for <b>40% higher engagement</b> , built responsive front-end with <b>React, TypeScript, HTML/CSS</b> , and integrated <b>REST APIs</b> .  | 2024.07 - 2025.04  |
|                | <b>Image Captioning</b>   Team Lead, Machine Learning Developer<br>• Constructed a Flask web application leveraging OpenCV for real-time image captioning, optimizing site speed and achieving 500+ weekly active users.<br>• Initiated the creation of a bespoke 200-word vocabulary and novel tokenization strategies to drive measurable gains in model quality and performance.<br>• Fine-tuned a pre-trained CNN-RNN architecture on custom image-caption datasets, improving caption accuracy and reducing semantic errors by 18%.<br>• 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.<br>• Enhanced accessibility for students with visual or learning challenges by 30% through automated captioning solutions. | 2024.02 - 2024.05  |
|                | <b>PyRush</b>   Team Lead, Game Developer<br>• <b>Engineered</b> Py-Rush, a 2D platformer with an intuitive Mario Maker-inspired level editor, enabling users to <b>create, save, and play over 100+ custom levels</b> , ultimately <b>boosting user engagement by 40%</b> .<br>• <b>Implemented sophisticated game mechanics</b> , including advanced <b>enemy AI</b> , precise camera tracking, and intricate animation systems, resulting in a <b>20% improvement in gameplay fluidity</b> .<br>• <b>Conducted significant performance optimizations</b> , achieving a <b>15% reduction in level load times</b> for enhanced responsiveness and user satisfaction.<br>• Added keyboard shortcuts and save/load features to enhance gameplay convenience.   | 2023.08 - 2023.11  |
| CERTIFICATIONS | • <b>Blockchain Developer, IBM Career Education Program</b><br>Invented Proof for secure certificate verification via blockchain.<br>• <b>Adobe UI &amp; UX (Graphic Design), Ethnus via Codemitra</b><br>Applied UI/UX principles to design SwapHub's user interface.<br>• <b>Privacy and Security in Online Social Media, NPTEL</b><br>Awarded <b>Elite+Silver</b> for expertise in social media privacy and security.<br>• <b>HTML,CSS,and Javascript for Web Developers, Coursera</b><br>Built a restaurant site with recipe finder using HTML, CSS, and JavaScript.  | 2025.02 - 2025.04<br>2025.02 - 2025.04<br>2024.01 - 2024.05<br>2023.08 - 2023.12 |
| SKILLS         | <b>Languages:</b> English, Hindi.<br><b>Programming:</b> Python, C++, MATLAB, Java, HTML, CSS, SQL.<br><b>Developers Tools:</b> GitHub, Git, VS Code, Visual Studio, ReactJs, ThreeJS, Django.  |  |
| COUSEWORK      | Data Structures, Computer Vision, Operating Systems, Computer Networks, Database Management, Deep Learning, Linear Algebra, Computer Architecture.  |  |