

# Rhythm Juneja

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## Education

**KJ Somaiya College of Engineering, Mumbai**  
Pursuing Bachelors of Technology in Computer Engineering  
Honours: Cyber Security and Forensics

October 2022 – May 2026

## Experience

### HCL Tech

June 2025 - July 20

#### *Internal PenTest Assistant*

- Utilized automated security scanners such as Nessus and Qualys to identify vulnerabilities in production and development web applications, improving detection coverage and response time.
- Developed custom Python and Bash scripts to detect and exploit web application vulnerabilities, including rate limiting bypass, injection flaws, and session hijacking, significantly reducing manual testing effort.
- Created hands-on OWASP Top 10 demonstration labs and challenge-based environments, enabling internal teams to understand and remediate common web vulnerabilities such as XSS, CSRF, and broken access control.
- Designed and deployed centralized logging and monitoring solutions , which were adopted across the department for real-time threat detection and auditing.

### Integrated Tech9

June 2025 - July 2025

#### *Cybersecurity Intern – SIEM Deployment*

- Deployed and configured Wazuh SIEM across internal systems to monitor log data from endpoints, firewalls, and application servers.
- Integrated alerting and rule-based detection for common threats, significantly improving visibility into system activity and anomalies.
- Collaborated with the IT and security team to set up centralized logging and improve incident response workflows.

### DeepCytes

May 2024 - June 2024

#### *Red Team Member*

- Orchestrated full-scale Red Team operations, emulating APT-style cyber threats using tools like Cobalt Strike, Empire, and BloodHound to assess security resilience and lateral movement risks.
- Conducted comprehensive Vulnerability Assessment and Penetration Testing (VAPT) on web applications, APIs, and network infrastructure using Burp Suite, Nessus, and Nmap, identifying critical security gaps.
- Engineered sophisticated social engineering campaigns, including phishing simulations (using Gophish) and credential harvesting, testing user awareness and incident response effectiveness.
- Leveraged Open-Source Intelligence (OSINT) methodologies with tools like Maltego, Recon-*ng*, and theHarvester to map attack surfaces, extract sensitive data, and identify exploitable weaknesses.

### CSI KJSCE Student Chapter

June 2023 - June 2024

#### *Creative Team Member*

- Co-organized a UI/UX workshop that introduced over 50+ students to core principles of interface and experience design. user experience design.
- Designed visually engaging promotional materials and digital assets that increased event participation by 30%.
- Contributed to end-to-end event planning, including scheduling, content flow, and interactive segment design.
- Delivered hands-on demonstrations using real-world examples to help attendees apply key UX heuristics and design patterns.

### Software Development Cell KJSCE

June 2024 - October 2024

#### *UI/UX Designer Web Developer (Laravel)*

- Developed as a college project, the Elective Allotment Portal is an in-house web application designed to streamline the elective selection process for students.
- Implemented responsive front-end features using Laravel, ensuring seamless navigation across devices.

## Projects

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**Ainek** | Python, Google Gemini (Vision+Text), PyAutoGUI, TTS, Hotkeys, Screen Capture

[GitHub](#)

- Built an AI voice assistant for visually impaired users: global hotkey triggers a screenshot + voice capture; **Gemini Vision** analyzes UI context and an LLM infers intent to generate step-by-step navigation; responses are spoken via TTS.
- Implemented cross-app automation: open/switch desktop apps, web search and research synthesis, URL/YouTube open-and-play, and clipboard/typing helpers to drive GUIs hands-free.
- Added email drafting/sending via GUI automation, natural-language reminders and task management, and persistent memory for learned multi-step “skills” that can be reused.
- Delivered screen interaction primitives (screenshotting, on-screen image locate-and-click) and guided asset capture to bootstrap robust UI selectors.

**Sentinel** | React, Tailwind, Firebase (Auth, Firestore, Functions), Google Gemini, Cloudinary

[Demo](#) | [GitHub](#)

- Built a fully serverless, cross-platform AI assistant using **Google Gemini** and agentic AI techniques to analyze social media posts and generate sentiment scores, audience breakdowns, and engagement forecasts.
- Designed and deployed a modular backend architecture with **Firebase Auth**, **Firebase**, and **Cloud Functions**, integrated with **Cloudinary** for seamless media management.
- Delivered a custom **Progressive Web App (PWA)** that simulates real user interactions (likes, comments, reactions) to predict post performance without relying on third-party APIs.
- Engineered structured, JSON-based outputs for dynamic post insights—enabling future integrations with custom LLMs or data visualization dashboards.

**Ratna Supermarket** | React, MongoDB, Express, Node.js

[Demo](#) | [GitHub](#)

- An online platform designed to simulate a complete shopping experience.
- Manage products, users, shopping carts, and orders for a complete online shopping experience.
- Build a user-friendly and responsive interface for product browsing and purchasing.

**AgroShield** | TensorFlow, Flask, Gemini AI, React, MongoDB, Express, Node.js

[Github](#)

- Agroshield is an IoT-based precision agriculture platform designed to improve farming efficiency and diagnostics for crops and livestock.
- Modules include a mobile PWA app for farmers and a website for NGOs, veterinarians, and agriculture experts.

**HealthyNator** | React, MongoDB, Firebase, Express, Node.js, Gemini AI

[Demo](#) | [GitHub](#)

- Developed an AI-powered system to provide remedies to patients before connecting with doctors.
- Implemented Gemini AI to analyze symptoms and suggest personalized remedies.
- Led and collaborated with the team to design UI and improve UX.

**Rasteriser** | C#, .NET, Multithreading, Software Rendering

[GitHub](#)

- Developed a high-performance software rasterizer inspired by Sebastian Lague's graphics tutorials, focusing on real-time 3D rendering without hardware acceleration.
- Implemented core features including perspective projection, backface culling, depth buffering, and per-triangle parallelization for efficient rendering.
- Added basic directional and ambient lighting to enhance visual output, supporting both color and depth rendering modes.
- Enabled animation output and optimized rendering pipeline through multithreaded processing.
- Designed with extensibility in mind, with planned features such as texture mapping, normal mapping, and in-game window rendering.

- Developed a decentralized storage platform that securely encrypts files, anchors their metadata on a private blockchain, and manages extended properties using a MongoDB-backed service.
- Implemented a Node.js backend to handle file encryption, local/IPFS storage, and smart contract interaction for on-chain metadata registration.
- Designed a React-based front-end for seamless file upload, labeling, and retrieval, enforcing customizable access rules based on attention and confidence labels.
- Integrated a robust metadata management system supporting CRUD operations, role-based access, and dynamic retrieval policies.
- Emphasized modularity and extensibility, enabling future enhancements such as advanced access control, audit logging, and multi-cloud storage support.

- Developed a simple library management and book issuance system in Java with a graphical user interface created using Swing.
- Implemented core features including adding, issuing, and returning books, and maintaining records of book inventories and transactions.
- Utilized file-based storage for maintaining persistent records without requiring a dedicated database.
- Designed with a focus on user-friendly interaction for use as a college project, prioritizing straightforward functionality over complex workflows.
- Ensured extensibility for future enhancements such as search functions, overdue notifications, and reports.

## Hackathon & Achievements

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- Smart India Hackathon 2024, College Finalist
- Datathon, KJSCE, Mumbai
- Experience in 6 MUNs with awards in 3 (High Commendation in 1, 2 Special Mention and 1 Verbal Mention.)

## Certifications

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### Security Operations Center (SOC)

Cisco Learning and Certifications

### Linux Kernel Programming and Introduction to Yocto Project

University of Colorado Boulder

### Linux System Programming and Introduction to Buildroot

University of Colorado Boulder

### Foundations of Project Management

Google

### Introduction to Containers w/ Docker, Kubernetes & OpenShift

IBM

### Neural Networks and Deep Learning

DeepLearning.AI

### Introduction to C# Programming and Unity

University of Colorado Boulder

## Skills

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- **Languages:** C/C++, C#, Python, Java, JavaScript, SQL, TypeScript
- **Developer and Security Tools:** VS Code, Firebase, Burp Suite, Nmap, Metasploit, Cobalt Strike, Empire, BloodHound, Wazuh, Nessus, Wireshark, Qualys
- **Technologies/Frameworks:** MongoDB, Express, React.js, Next.js, Git, GitHub, Gemini API, Docker, OpenCV, Flask
- **Software:** Figma, Adobe Premiere Pro, Adobe Photoshop, Blender, Solidworks, Canva, Davinci Resolve, Matlab
- **Soft Skills:** Communication, Teaching, Leadership, Teamwork, Creative Thinking