

Sanath R

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EDUCATION

• B.E. - Computer Science and Engineering	CGPA: 9.23
<i>BMS Institute of Technology and Management, Bengaluru</i>	2023 – 2026
• Diploma in Computer Science and Engineering	CGPA: 9.92
<i>Acharya Polytechnic, Bengaluru</i>	2020 – 2023

CYBERSECURITY FINISHING SCHOOL - CYSECK, IISC (OCT '25 – Nov '25)

- Completed hands on cybersecurity training covering network security, ethical hacking, and incident response with emphasis on threat hunting, SIEM workflows, and MITRE ATT&CK framework.
- Performed penetration testing and vulnerability assessments using Kali Linux and Burp Suite, solved CTF challenges targeting OWASP Top 10 vulnerabilities including SQLi, XSS, and privilege escalation.

PROJECTS

Zero-Knowledge Auth System Privacy Preserving Authentication	[Link]
– Built Groth16 based login flow using Circom circuits and Poseidon hashing to eliminate password storage.	
– Designed a zero-trust authentication flow resistant to phishing and MITM attacks by binding cryptographic proofs to the client and enforcing IP based rate limiting.	
– Replaced OTP-based recovery with cognitive verification questions for improved UX and reduced recovery failures.	
– Stack: React, Node.js, PostgreSQL, Circom, SnarkJS, WASM	
PitchEval AI-Based Pitch Deck Evaluation Platform	[Link]
– Implemented multi criteria AI scoring pipeline with structured evaluation templates for hackathon pitch analysis.	
– Reduced response latency by using Redis caching and asynchronous RabbitMQ workers for bulk processing.	
– Built judge dashboard with scoring consistency checks and transparency metrics to ensure evaluation integrity.	
– Stack: Next.js, MongoDB, Redis, RabbitMQ, Google Gemini, Clerk	
ExpiTrack Smart Expiry Management System	[Link]
– Implemented Tesseract OCR to accurately read expiry dates from product labels and packaging types.	
– Designed a user friendly alert system that notifies users about upcoming expirations to reduce spoilage.	
– Added a recipe suggestion feature that recommends dishes using items close to expiry.	
– Stack: React, Node.js, MongoDB, Tesseract OCR, OpenAI API	

SKILLS

- **Programming Languages:** Java, Python, JavaScript, SQL
- **Technologies & Frameworks:** MongoDB, Express.js, React, Node.js, PostgreSQL
- **Security:** Web Application Security Testing, Secure Authentication and Authorization, Applied Cryptography
- **Tools & Platforms:** Git, Docker, AWS, Linux OS, Burp Suite (Proxy, Repeater), n8n, Apache Kafka

CERTIFICATIONS

• AWS Cloud Quest: Cloud Practitioner	Badge
• CISCO Junior Cybersecurity Analyst Career Path	Certificate

ACHIEVEMENTS

- National Hackathons: Central India Hackathon, NCET Hackathon, GeeksforGeeks Hackathon (3x Winner)
 Department Level: 2x Winner
- Capture The Flags: Hack The Box India (Top 3) | IIIT Sri City (8th Place) | IIT Madras (27/367)
- TCS TechBytes Regional Top 20