Sakarey Parangi Bharath

B.Tech CSE (Cybersecurity)

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Cybersecurity and systems-focused engineering student experienced in building and operating multi-tier distributed systems, automated detection pipelines, and troubleshooting workflows — including SIEM/SOC alerting, a full-stack fraud-detection platform, and automated test/scoring pipelines validated through iterative debugging and rule tuning.

Education

Manipal Institute of Technology, Bengaluru 2023 – 2027

B.Tech Computer Science & Engineering (Cybersecurity); CGPA: 8.05

Projects

NFC Contactless Payment Simulator

Python, Flask, MongoDB, React.js, Machine Learning GitHub

- Designed and built a multi-tier distributed payment system spanning a card emulator, POS terminal, payment processor/token vault, ML-based fraud-scoring engine, and a React dashboard with a live transaction feed.
- Implemented an automated fraud detection engine flagging velocity, amount-anomaly, and geo-jump signals, plus a timing-based relay-attack detector wired directly into the processor and dashboard for real-time alerts.
- Published with full architecture documentation, setup instructions, and security-design notes to support reproducibility and onboarding.

GitHub AI Security Auditor

Python, GitHub API, pytest GitHub

- Built a Python CLI tool to scan GitHub repositories for OWASP LLM Top 10 vulnerabilities – hardcoded secrets, prompt injection risks, unsafe code execution, and insecure RAG pipelines – via four dedicated scanner modules.
- Developed a 14-test automated pytest suite to validate scanner accuracy and built a scoring engine with generated summary reports.
- Tested against the real-world LangChain repository, iterating on detection logic to cut false positives from approximately 1,240 to about 40 high-confidence findings – a 97% reduction.

Mini-SIEM

Python, Log Analysis, MITRE ATT&CK GitHub

- Developed a lightweight SIEM ingesting 10+ concurrent log sources, with a rule-based alerting engine tuned for high-precision detection of brute-force attempts, port scans, and anomalous network traffic.
- Built an event dashboard visualizing security incidents, alert severity, and a timeline-based forensic view, achieving accurate, low-noise alerting (avg. 2 high-confidence flagged events per test run) to support incident response workflows.

SOC Home Lab – Detection & Incident Response

VirtualBox, Splunk (Ubuntu), Sysmon, Windows Event Logs

- Built and operated a virtualized SOC environment – a Windows 10 endpoint and an Ubuntu-hosted Splunk Enterprise SIEM – deploying Sysmon and the Splunk Universal Forwarder for endpoint telemetry and log forwarding.
- Simulated real-world attacks, including Hydra-based brute-force logins, phishing payload execution, and encoded PowerShell execution, and validated detection via Windows Event IDs (4625, 4688) and Sysmon process-creation events.
- Investigated and triaged generated alerts end-to-end by correlating Sysmon process trees, source IPs, and account activity; mapped observed techniques to MITRE ATT&CK (T1110 Brute Force, T1059.001 PowerShell) and documented findings in formal incident reports with severity ratings and escalation decisions.

Experience

ACM Student Chapter, MIT Bengaluru Oct 2025 – Present
General Secretary

- Organized 4+ hackathons totaling 75+ competing teams (up to 4 members each), coordinating end-to-end logistics, registration systems, and on-the-day operational troubleshooting.
- Independently secured full sponsorship for every hackathon run, including the most recent event co-sponsored by IBM and 1M1B; recognized institution-wide for excellence in hackathon organization.

National Service Scheme, MIT Bengaluru Jan 2025 – Feb 2026
Unit Head

- Spearheaded social drives and community awareness campaigns, managing 100+ volunteers while coordinating inter-college collaborations and logistics for large-scale events.

Tech Fest, MIT Bengaluru Jan 2025 – Apr 2025
Sponsorship Head

- Secured record-breaking sponsorships, enabling the organization of the first-ever Robo Wars at MIT Bengaluru.
- Led a sponsorship team that contributed 30–40% of the fest's total funding.

Skills

Security Systems	Network Security, Threat Detection, SIEM (Splunk), Sysmon, Incident Response, Distributed & Multi-Tier Systems, Cryptography, Log Analysis, Machine Learning for Security
Languages	C, Java, Python, JavaScript, React, SQL
Frameworks, Tools	React.js, Flask, MongoDB, REST APIs, Git, GitHub Actions, pytest
Concepts	Object-Oriented Design, Data Structures & Algorithms, Secure Software Development, Software Testing & Debugging, Agile Development, Full-Stack Development

Certifications

Foundations of Cybersecurity Aug 2026
Google / Coursera Verify

Introduction to Java and Object-Oriented Programming Oct 2024
University of Pennsylvania / Coursera Verify

Ordered Data Structures Oct 2024
University of Illinois Urbana-Champaign / Coursera Verify