

SAHIL KUMAR

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Education

Ramrao Adik Institute of Technology, D.Y. Patil University

B.Tech in Information Technology, CGPA: 7/10

July 2022 – Expected July 2026

Navi Mumbai, India

Green Fingers Global School

Central Board of Secondary Education

May 2020 – April 2022

Navi Mumbai, India

Technical Skills & Certifications

Languages: Python, JavaScript, Bash, HTML/CSS

Frameworks: React, Flask, Django, Bootstrap

Tools: Git, SQL, Docker, Kubernetes, Jenkins, Jira

Cybersecurity Tools: Splunk, Burp Suite, Wireshark

CCNA: Enterprise Networking, Security and Automation

ISC2: Certified in Cybersecurity

AWS Academy: Cloud Architect

Udemy: Web Developer Bootcamp

Experience

The Linux Foundation

May 2025 – July 2025

Open Source Security Contributor — Python, Flask, Security Policy Design

- Engineered an **interactive visualization tool** to demystify the complex, graph-based metadata of gittuf, a cutting-edge security project hosted by the Linux Foundation.
- Reduced the estimated onboarding time for new gittuf users to **understand complex policy states by over 40%** and enabled developers and security auditors to visually identify and **debug policy misconfigurations 25% faster** than by using command-line inspection alone.

Projects

Security Lab SIEM with Cloud Environment | Wazuh, AWS EC2

December 2023

- Built and configured a multi-VM (Windows/Linux) security lab**, deploying Wazuh agents to ingest and parse Sysmon, Windows Event Logs, and Zeek logs into a centralized Graylog SIEM.
- Developed and tuned **3+ custom rules** to detect specific **attack patterns**, validating the log pipeline's effectiveness.
- Triaged 10+ brute-force and **suspicious process execution attempts** weekly by conducting thorough analysis of ingested security logs.

Custom Network Intrusion Detection System | Python, Flask, NLTK, Vercel

May 2024

- Engineered a **real-time alerting framework** that produces structured JSON logs for detected intrusions, reducing manual log analysis time for **SIEM integration by 75%**.
- Created a modular rules engine that parses **threat signatures** from an external YAML file, enabling **dynamic rule updates** without altering the core application code.
- Validated the NIDS's effectiveness by simulating network attacks using tools like Nmap and successfully detecting and alerting on all **simulated threat scenarios**.

Echo Interview - Voice-Based AI Mock Interview Tool | Whisper, Mistral AI, Coqui TTS

June 2025

- Prepared a **fully voice-driven system** combining speech-to-text and text-to-speech, reducing user interaction friction to zero and creating a **100% hands-free interview simulation experience**.
- Developed a performance analytics dashboard that translates raw transcripts into actionable insights, empowering users to **reduce filler words by up to 50%** and track measurable improvements in their **speaking pace and clarity over time**.
- Made an intelligent interviewer agent powered by Mistral AI to dynamically generate context-aware **technical and behavioral questions**, simulating realistic, role-specific interview scenarios.

Achievements

- CyberShakti **CTF Finalist** - Ranked among top 2% nationwide (1000+ participants) organized by the Indian Army.
- Authored and published numerous technical blogs** and walkthroughs for CTF challenges and security labs on platforms including Medium, LetsDefend, THM, and Portswigger.

Extracurricular

- Volunteered at NULLCON Goa Cybersecurity Conference 2025, assisting in organizing sessions and interacting with global cybersecurity professionals.
- Participated in expert sessions at Seaside Conference, learning about the latest developments in web security, digital forensics, threat intelligence, and malware analysis.
- Attended MongoDB's official developer conference - MongoDB.local, participating in sessions on schema design, performance tuning, and cloud-native application development with MongoDB Atlas and Realm.