

Arya Mangesh Deshpande

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EDUCATION

B. Tech in Computer Science and Information Technology Symbiosis Skills and Professional University, Pune, 2022-2026
8.3 CGPA

CERTIFICATIONS

1. Trellix - DLP Network Essentials
2. Trellix - DLP Endpoint Essentials
3. Fundamentals of Microsoft 365 Generative AI
4. Forcepoint - Data Security - Level 1

Achievements

1. **Grand Finalist** — Smart India Hackathon 2025 (IITJammu)
2. **Finalist** — CodeVerse Hackathon (VIT)
3. **Participant** — AmbujaTech CTF

PROJECTS

1. Red and Blue Team Simulation Platform

- Led the design of a cybersecurity simulation platform using React.js (frontend) and Django (backend).
- Integrated tools like Wazuh for intrusion detection and the ELK Stack for log analysis and monitoring.
- Automated scenario deployment with Ansible, reducing setup time by 30%.
- Enhanced detection rates and user engagement through intuitive interfaces and realtime feedback mechanisms.
- Leveraged Proxmox for virtualization and environment simulation.
- Employed Python scripting for backend automation and task.

2. Laptop Security Scanner (Python | SIEM Integration)

- Built a **SOC-aligned endpoint security scanner** to collect, normalize, and correlate system and security events.
- Implemented **pipeline-based event parsing and correlation logic** inspired by ELK ingestion workflows to identify failed logins, suspicious processes, and abnormal activity patterns.
- Generated **structured, analyst-ready reports** to assist SOC investigations and enable seamless ingestion into centralized security monitoring platforms.

3. AI-Powered Skin Cancer Detection

- Developed a deep learning application for skin cancer classification using CNNs (TensorFlow/Keras). Designed secure Django + React-based web interface for uploading medical images.
- Deployed cloud-hosted model for real-time predictions with accuracy optimization.

4. Chronic Disease Management

- Built a healthcare-focused web application to assist in monitoring and managing chronic illnesses. Developed backend using Django with secure patient record handling and REST APIs.
- Implemented React.js frontend for user-friendly dashboards, reports, and appointment tracking. Integrated Supabase for database connectivity and authentication workflows.
- Applied strong focus on data security, HIPAA-inspired access controls, and multiuser scalability.

5. AI-Powered Smart Surveillance (Real-Time Vigilance)

- Automating real-time weapon & anomaly detection. React dashboard with Twilio alerts.
- YOLOv8 + OpenCV for live detection & tracking, Flask/Fast API backend for real-time inference.

6. Agentic AI-Powered Personal Loan Automation Platform (BFSI)

- Agentic AI chatbot enabling secure, automated personal-loan approvals by orchestrating customer interaction, KYC verification, and real-time underwriting. Encrypted sanction letters with full BFSI auditability.

EXPERIENCE

I. **Company: Imperative Business Ventures Pvt Ltd**

Title: Cybersecurity Intern

Duration: 19/08/2025 – 19/11/2025

- SOC/NOC Lab Deployment: Built modular ELK + Wazuh + Zabbix stack using **Docker** with static IPs and LAN access for agent enrolment and monitoring.
- Health Check Automation: Scripted **health checks** for **Elasticsearch, Kibana, Fleet Server, and Zabbix agents** to validate uptime and service integrity across Docker containers, remotely connected to Thane office via VPN
- Contributed to Blue Team operations including SOC/NOC monitoring and incident response.

II. **Company: Erfiedien Technologies Pvt. Ltd**

Title: Software Developer Intern

Duration: 01/02/2025 – 01/08/2025

- Learned and applied frontend development using React, HTML, CSS, and JavaScript for building responsive UI.
- Worked on database design and integration using Supabase.
- Contributed to connecting frontend, backend, and database for a working full-stack project. • Gained hands-on experience in end-to-end web development within an Agribusiness domain project.

III. **Company: Amazure Technologies Pvt. Ltd**

Title: Cybersecurity Analyst Intern

Duration: 01/02/2024 – 01/08/2024

- A technology company focused on innovative software solutions.
- Installed, configured, and optimized Trellix and Forcepoint DLP solutions, ensuring data protection across endpoints and networks.
- Collaborated on the development of a Tenant Management System with a strong focus on secure backend architecture
- Performed API testing and server management to validate system resilience and security compliance. • Utilized the ELK Stack for basic log monitoring and analysis, enhancing visibility into system events.

IV. **Company: Nexgenesis Pvt. Ltd**

Title: Software Developer Intern

Duration: 01/02/2024 – 01/08/2024

- A software development company specializing in innovative technology solutions.
- Designed and implemented interactive dashboards with React.js for data visualization. Developed and tested backend APIs using Django and MongoDB for secure data handling.
- Contributed to Agile development cycles, meeting project milestones efficiently.

ADDITIONAL SKILLS AND TECHNOLOGIES

• **Cloud Security & Infrastructure:**

AWS (EC2, S3, VPC, IAM), Azure, GCP, AD/ADFS, IAM & service accounts, S3 security, secrets & key management, encryption, WAF, VPN, firewalls, DNS security, DDoS protection, backup & disaster recovery.

• **Security Operations & Monitoring:** SOC monitoring, SIEM (Splunk, ELK, Wazuh, Microsoft Sentinel), EDR, incident response, alert & log analysis, threat hunting, security event correlation, IDS/IPS.

• **Tools & Technologies:** Nmap, Kali Linux, Burp Suite, Docker, Kubernetes, VMware, VirtualBox

• **Scripting & Development:** Python (security automation), Java, C, SQL, ReactJS.

• **Operating Systems:** Linux (Ubuntu, Kali), Qubes OS, Windows Administration.