

# Arya Mangesh Deshpande

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## EDUCATION

B. Tech in Computer Science and Information Technology  
8.3 CGPA

Symbiosis Skills and Professional University, Pune, 2022-2026

Higher Secondary  
68%

Pratibha Junior College, Pune, 2020-2022

## CERTIFICATIONS

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

## PROJECTS

### 1. Red and Blue Team Simulation Platform

A comprehensive simulation platform for cybersecurity training, integrating real-world tools and technologies.

- 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

- Developed a SOC-focused utility to scan laptops for security posture and collect system/security logs. Implemented correlation and parsing of events inspired by Logstash pipelines for efficient analysis.
- Detected anomalies such as failed logins, suspicious processes, and unusual system activity.  
Generated structured reports for SOC/NOC analysts to support threat investigation.
- Designed with Python for lightweight integration into SIEM workflows (ELK/Logstash).

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

## 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, Active Directory (AD/ADFS), IAM, User & Service Account Management, S3 Bucket Security, Secrets Management, Key Management, Data Encryption, WAF, VPN, Firewalls, DNS Security, DDoS Protection, Backup & Disaster Recovery.

**Tools:** Nmap, Kali Linux, Burp Suite. Monitoring, Detection & Incident Response: SOC Monitoring, SIEM (Splunk, ELK, Wazuh, Microsoft Sentinel), EDR, Incident Response, Alert Analysis, Log Analysis, Threat Hunting, Security Event Correlation, Intrusion Detection/Prevention Systems (IDS/IPS).

**Scripting & code:** Python, Security Automation, Java, C, ReactJS, SQL.**Containerization & Virtualization:** Docker, Kubernetes, VirtualBox, VMware, Cloud-Native Security, Monitoring (Prometheus, Grafana).

### Operating Systems:

Linux (Ubuntu, Kali), Windows Administration, QubesOS.

