ANGANBA SINGHA

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SUMMARY

A recent Computer Science graduate with a strong practical background in system administration and cybersecurity. Highly skilled in troubleshooting complex issues across Linux and Windows environments, with hands-on experience in network analysis. Eager to apply a security-first mindset and advanced problem-solving abilities to ensure system uptime, manage and secure network infrastructure, and provide comprehensive technical support as a DevOps Engineer.

TECHNICAL SKILLS

- **Languages:** Python, Bash, C++ Java, JavaScript, HTML/CSS
- **DevOps:** Docker, Ansible, Terraform, Jenkins, CI/CD Pipelines, AWS, Proxmox, Portainer, Podman
- **Databases:** MySQL
- **AI/ML Libraries:** PyTorch, OpenCV
- **Tools:** Git, Burp Suite, Metasploit, Nmap, Nessus, Nikto, OWASP ZAP, Wireshark, Active Directory
- **Monitoring Tools:** Prometheus, Grafana, Loki, Zabbix, Wazuh
- **Web Hosting & Servers:** cPanel, WHM, WHMCS, Apache, NGINX, LiteSpeed
- **Cybersecurity:** Vulnerability Assessment, Penetration Testing, Reverse Engineering, Malware Analysis, Digital Forensics, Network Traffic Analysis, OSINT
- **AI-Assisted Development:** Cursor, Builder, Copilot, n8n

CYBERSECURITY & RESEARCH EXPERIENCE

Cybersecurity Practitioner & Content Creator   *Nov 2022 - Present*
TryHackMe/p/cruzium · YouTube/@cruzium

- Demonstrated expertise in real-world security scenarios by successfully completing over **165+ hands-on labs**, achieving a global rank in the **top 1%** of all users on the TryHackMe platform.
- Mastered a diverse range of security domains, earning 15 badges in areas including the OWASP Top 10, network security, and advanced penetration testing.
- Made detailed video walkthroughs of complex CTF challenges that made things like web application security, OSINT, and Linux privilege escalation easier to understand for a growing audience.

Ensemble-Based Adversarial Robustness: A Systematic and Empirical Integration of Various Image Classification Models and Defense Strategies.
Undergraduate Thesis, Noakhali Science and Technology University

- Investigated and developed a novel stacked ensemble architecture to defend deep learning image classification models against adversarial attacks by implementing and evaluating a defense-in-depth pipeline that uses diverse models, adversarial training, and diversity-promoting techniques to enhance model resilience.

WORK EXPERIENCE

Jr. Linux Server Administrator · Bdcalling IT Ltd. (ZenexCloud Team)   *Aug 2025 - Present*

- Administer and secure Linux-based production systems, applying system hardening, monitoring, and automation to ensure stability and performance.
- Supported security operations by developing custom scripts, deploying monitoring solutions, and improving detection capabilities.
- Collaborated with the cybersecurity team on VAPT reports, helping the cloud team prioritize remediation efforts by balancing immediate security risks with production stability.
- Troubleshoot and resolve server, network, and software issues, supporting reliable daily operations.
- Collaborated with senior administrators on infrastructure projects, including secure deployments and system upgrades.

AI Trainer (Part-time) · Outlier AI   *Aug 2024 - Oct 2024*

- Improved model performance by evaluating and rewriting over 100 AI responses weekly, leading to a measurable decrease in factual errors and enhancing contextual fluency across English and Bengali.
- Identified and documented critical model failures including factual errors, logical fallacies, safety risks, and biases to provide actionable feedback for improving model behavior and reliability.

EDUCATION

Bachelor of Science in Computer Science and Telecommunication Engineering   *2020 - July 2025*
Noakhali Science and Technology University
- CGPA: **3.66** out of 4.00

Higher Secondary Certificate in Science   *Jun 2017 - 2019*
Notre Dame College, Dhaka
- GPA: 4.58 out of 5.00
- Achieved Perfect Attendance Certificate

PROJECTS

Self-Hosted DNS & Reverse Proxy Infrastructure
- Designed a self-hosted infrastructure using Docker, BIND9, and Traefik v3 for managing internal and external services.
- Automated SSL/TLS provisioning through the ACME protocol with Let's Encrypt and Namecheap API.
- Configured Traefik for dynamic routing, load balancing, and centralized certificate management.
- Deployed an authoritative DNS system with BIND9 for domain resolution and service discovery.
- Simulated a production-grade environment with secure network segmentation and automated recovery.

Wazuh Manager & Malware Detection Automation
- Deployed and configured a Wazuh Manager with automated agent deployment for Debian and RPM servers (Docker for Debian, Podman for RPM).
- Built custom scripts to integrate File Integrity Monitoring, Process Monitoring, and YARA-based malware detection.
- Pulled and maintained community + custom YARA rules to detect web shells and obfuscated code.
- Forwarded logs from Imunify360 and mapped detection rules to the MITRE ATT&CK framework for better threat classification.
- Automated scheduled malware scans, rule updates, and log ingestion with systemd timers and custom rules.
- Improved threat visibility and incident response across production systems with centralized monitoring.

ACHIEVEMENTS
- **MIST LEETCON (Hack Me If You Can) 2023**: Ranked **42nd** out of 152 teams in the final on-site round of Bangladesh's first international cybersecurity conference.
- **National Cyber Drill 2022**: Placed 44th in the second round of the national competition organized by BGD e-GOV CIRT.
- **FLAG HUNT 2023**: Ranked 51st in the first round organized by the Bangladesh Army & CTF_BD Community

LANGUAGES
English (Fluent), Bangla (Native), Meitei-lon (Native)