

# Azhad Shahzad Shaik

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## Summary

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Detail-oriented Cybersecurity Analyst with a strong foundation in threat detection, risk assessment, and cyber defense strategies. Holds a Master's in Cyber/Computer Forensics and Counterterrorism. Experienced with the NIST and NICE frameworks, incident response, and implementing ML-based detection systems. Certified in CEH, CHFI, and CCNA. Demonstrated hands-on ability to secure IT infrastructure and detect DoS attacks using ML techniques.

## Experience

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### iQ4 — IT Risk Analyst Intern

*Remote*

*May 2024 – Aug 2024*

- Completed a 350-hour NICE framework-based cybersecurity project: “The Threat Within and NIST Framework.”
- Assessed real-world insider threat cases and developed response playbooks aligned with the NIST Cybersecurity Framework.
- Collaborated with a virtual SOC team to analyze and mitigate simulated incidents across enterprise environments.

### Vodafone Idea Ltd. — Network Engineer

*Hyderabad, India*

*Nov 2022 – Apr 2023*

- Provided 2nd-level RAN support and led migration of 3500+ sites from OSS to SRAN, improving regional network performance.
- Conducted parameter audits and resolved BSC-level faults, reducing outage incidents by 15%.
- Supported 4G upgrades and validated configuration data for seamless rollouts across 15 States.

### Vodafone Idea Ltd. — Graduate Engineering Trainee

*Hyderabad, India*

*Nov 2021 – Nov 2022*

- Configured and migrated over 50 2G/3G/4G cell sites using OSS scripting and XML automation tools.
- Created custom scripts to reduce manual input errors, increasing deployment accuracy by 20%.
- Participated in cross-functional planning meetings to align RAN deployment schedules with service-level KPIs and rollout goals.

### Intern – Android Development

*SanRidge Pvt Ltd, Hyderabad, India*

*Dec 2020 – May 2021*

- Developed mobile applications including calculator, scientific calculator, and tic-tac-toe using Kotlin and Android Studio. Gained hands-on experience in Android UI design.

### Intern – Control Systems Engineering

*Swaraj India Agro Ltd, Maharashtra, India*

*May 2019 – Jul 2019*

- Worked on automation and control systems to manage large machinery. Contributed to a project involving monitoring variables such as temperature and pressure.

## Organizations & Leadership

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### Management Conference 2022

*Apr 2022 – Apr 2023*

Associated with **Vodafone Idea Limited**. Participated in organizational planning and coordination of company-wide management and leadership development events. Contributed to operational logistics and technical support.

## Education

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### Sacred Heart University — M.S. in Cyber/Computer Forensics and Counterterrorism

*Fairfield, CT*

*Expected Mar 2025*

Relevant Coursework: Network Security, Incident Response, Forensic Tools, Secure System Design

### Koneru Lakshmaiah College of Engineering — B.Tech in Electronics and Communications Engineering

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*jayawada, India*

*Jun 2017 – May 2021*

Relevant Coursework: Communication Systems, Embedded Systems, Digital Signal Processing, Wireless Networks

## Projects

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**DoS Attack Detection in EV Charging Stations using Machine Learning** — Capstone Project — Sacred Heart University *Jan 2025 – till now*

- Developed a supervised ML model using Python to detect Denial-of-Service (DoS) attacks on EV Charging Station networks.
- Trained and evaluated the model on simulated datasets, achieving over 90% detection accuracy.
- Analyzed traffic patterns and attack signatures to improve classification and alerting.
- Proposed mitigation strategies for real-time deployment in smart grid infrastructures.

**Creating Fake Access Point to Intercept, Modify, or Redirect Traffic using Bettercap** — Sacred Heart University *Jan 2024 – Mar 2024*

- Utilized Bettercap to create a fake access point to demonstrate Evil Twin attacks, enabling traffic sniffing, redirection, and manipulation.
  - Simulated ARP spoofing, DNS spoofing, and SSL stripping to illustrate various man-in-the-middle attack vectors. Advised best practices for network safety including VPN usage and HTTPS verification.
- Skills:** Kali Linux, Oracle VM, Ubuntu

## Skills

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**Networking:** TCP/IP, DNS, DHCP, Wireshark, Cisco Packet Tracer, Network Configuration

**Security Tools:** Kibana, ElastAlert, Snort, Suricata, Splunk, Nmap

**Programming & Scripting:** Python, PowerShell, Bash, Linux

**Cloud Platforms:** Microsoft Azure, AWS

**Certifications:** Python(basic) from hackerRank, python projects from coursera, CCNA

## Certifications

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CCNA, AWS, Python Map Geovisualization, Covid Dashboard, Graphic Design, Entrepreneurship, Python

## Publications

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A. Kanakamalla, A. S. Shaik, and S. Suman, “Remote Monitoring System of Heart Conditions for Elderly Persons with ECG Machine Using IoT Platform,” *Journal of Intelligent Systems and Technologies (JIST)*, vol. 10, no. 37, Winter 2023.

<https://jist.ir/en/Article/15692>

## Soft Skills

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- Strong problem-solving and analytical skills
- Effective communication and collaboration in cross-functional teams
- Leadership and project management skills
- Quick learning in dynamic environments