

# Sai Krishna Masetti

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## Professional Summary

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Cybersecurity graduate student (GPA 4.0) with hands-on experience in threat analysis, incident response, and identity & access management through projects with TCS, AIG, Deloitte, and Mastercard. Skilled in SIEM tools (Splunk, QRadar, Microsoft Sentinel), EDR/XDR platforms (CrowdStrike, SentinelOne, Carbon Black), and scripting (Python, SQL, PowerShell). Proficient in cloud security (AWS, Azure, GCP) and frameworks including NIST CSF, ISO 27001, and MITRE ATT&CK. Certified by Google in Cybersecurity, with CompTIA Security+ and (ISC)<sup>2</sup> CC exams scheduled for Sep 2025. Seeking entry-level opportunities as a SOC Analyst or Security Engineer to strengthen enterprise defenses and support incident response operations.

## Technical Skills

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- **Security Operations:** Incident Response, Threat Hunting, Log Analysis, Security hardening, Vulnerability Management, SIEM Monitoring, Phishing Analysis
- **Tools & Platforms:** Splunk, IBM QRadar, Sentinel, CrowdStrike Falcon, SentinelOne, Carbon Black, McAfee, Symantec, Check Point, Fortinet, Microsoft Defender for Endpoint, Proofpoint
- **Vulnerability & Threat Management:** Nessus, Qualys, OpenVAS, VirusTotal, AlienVault OTX, MISP (Threat Intelligence), OSINT
- **Cloud & DevSecOps:** AWS, Azure, Google Cloud Platform (GCP), IAM, Firewall Configuration, DevSecOps Pipelines, Container Security (Docker, Kubernetes), Jenkins
- **Networking & Systems:** TCP/IP, DNS, DHCP, VPN, IDS/IPS, Windows Server, Windows 10/11, Linux (Ubuntu, Kali Linux), Active Directory (AD), Azure AD, Group Policies
- **Frameworks & Standards:** NIST CSF, ISO 27001, CIS Benchmarks, MITRE ATT&CK, HIPAA, PCI-DSS, GDPR
- **Programming & Scripting:** Python, SQL, PowerShell, Bash, JavaScript
- **Automation & Orchestration:** SOAR (Splunk SOAR, Cortex XSOAR), Security Playbooks
- **Other Tools:** Git, ServiceNow, Jira, Wireshark, VS Code

## Certifications

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- **CompTIA Security+:** Scheduled Sep 2025
- **(ISC)<sup>2</sup> Certified in Cybersecurity (CC):** Scheduled Sep 2025
- **Google Cybersecurity Specialization**
- **Security Operations Center in Practice - IBM**
- **Cybersecurity Fundamentals - IBM**

## Cybersecurity Experience

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### Tata Consultancy Services (TCS)

Jun 2025

#### *Cybersecurity Analyst (Virtual Simulation)*

- Collaborated with the IAM consulting team to develop and enforce secure access management strategies.
- Delivered technical documentation aligning IAM protocols with business objectives and compliance standards.
- Applied cybersecurity best practices in identity and access governance scenarios.

### AIG

Jun 2025

#### *Cybersecurity Threat Analyst (Virtual Experience Program)*

- Investigated simulated threats as part of AIG's Cyber Defense Unit, staying current with CISA advisories.
- Researched published vulnerabilities and assessed potential organizational impact, leading to improved risk management strategies
- Drafted internal communications to guide remediation strategies, which facilitated quicker implementation of security measures
- Developed a Python script to brute force encrypted zip files and prevent data loss in simulated ransomware cases.

### Deloitte

Jun 2025

#### *Cybersecurity Consultant (Virtual Simulation)*

- Analyzed web activity logs to identify suspicious user behavior during a simulated breach response.
- Investigated incident data to isolate causes of the breach and recommended remediation strategies.
- Applied critical thinking to evaluate cybersecurity threats using NIST guidelines during cyber incident scenarios, resulting in effective breach containment

### Mastercard

Jun 2025

#### *Security Awareness Analyst (Virtual Simulation)*

- Assessed phishing threats and internal vulnerabilities as part of Mastercard's Security Awareness Team.
- Identified gaps in employee training and designed tailored awareness programs for targeted teams.
- Provided recommendations for improving enterprise-wide cybersecurity hygiene and risk posture.

## Professional Experience

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### CloudNext Technologies Pvt Ltd

**Dec 2021 - Mar 2024**

*Secure Software & Cloud Engineer*

*Hyderabad, Telangana, India*

- Implemented secure coding practices (input validation, encryption, OAuth, JWT, API security) to safeguard patient data, ensuring 100% HIPAA/GDPR compliance across all app modules.
- Configured and managed IAM roles, firewall rules, and monitoring across AWS, Azure, and GCP to prevent unauthorized access, reducing security incidents by 25%.
- Established a DevSecOps pipeline with automated vulnerability scans and secret management, cutting security misconfigurations during deployments by 40%.
- Identified and remediated critical security vulnerabilities through proactive testing and patching, eliminating high-risk flaws before production release.
- Collaborated with cross-functional teams to design secure telehealth workflows, balancing usability with compliance, which supported a 30% increase in user adoption while maintaining strict data protection standards.

## Education

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### Webster University St. Louis, MO

**Dec 2025**

*Master of Science, Cybersecurity Operations*

- **GPA:** 4.0
- **Coursework:** Network Security, Cybersecurity Intelligence, Forensics, Threat Detection, Law & Policy, Cloud Security, Social Engineering, Encryption Methods

### Indian Institute of Technology (IIT) Kharagpur

**May 2020**

*Bachelor of Technology, Mechanical Engineering*