VIDYA IGOOR KARIBASAPPA

Master's in information technology (System Security-System Engineer)

Thousand Oaks, California, USA | +1 (805) 885-7588 | Igoorkaribasappa@callutheran.edu |
www.linkedin.com/in/vidyaigoorkaribasappa | www.vidyakigoor.com

Results-driven System and Security Engineer with 3+ years of experience in cyber security, system engineering, and network management. Proven expertise in threat analysis, system hardening, and delivering robust security solutions. Adept at collaborating with cross-functional teams to ensure secure, scalable, and efficient infrastructure. Passionate about safeguarding digital assets and reducing risk.

NOTABLE ACCOUNTABILITIES

- Experienced as a System Engineer, preferably in a cyber security-focused role.
- Proficiency in Linux system administration, including security protocols and software package management.
- Experience with Oracle and Red Hat Linux kernel upgrades, SAMBA configuration, and IBM Web Sphere server management.
- Strong understanding of cyber security best practices, threat evaluations, and vulnerability assessments.
- Proficiency in designing and implementing wired and wireless network solutions.
- Experience in assessing network requirements and devising secure network architectures.
- Familiarity with WAN/LAN network management and optimization techniques.
- Solid team-working skills with the ability to produce effective results under minimal supervision.
- Time-management skills and capable to complete projects within specified deadlines.
- Good researching, analytical, project management, reporting and presentation skills.
- An exemplary communicator with excellent interpersonal and problem-solving skills and ability to interact effectively with people at all levels.

Professional Skills: Cyber Security | Network Management | System Engineering | Client Relationship Management | Project Management | Cloud Design & Formation | Automation Skills | DevOps Key Concepts | Threat Investigation | Data Integration | Service Delivery | Data Warehouse | Defect Management | Programming, Debugging, Logging | SDLC | Process Definition Document | Code Management | Statistical Analysis

Technical Skills: Data Mining | Network Penetration Testing | Programming: Java, C, C++, Python, JavaScript | Web Technologies: XML | Application Servers: IBM WebSphere | Operating Systems: Windows, Linux (Oracle, Red Hat) | Tools: Wireshark, Kali Linux, Nessus, Splunk, AWS Security Tools

ACADEMIC CREDENTIALS

- **M.S. in Information Technology (Cyber Security)** – California Lutheran University *(Expected Aug 2025)*
- **B.S. in Electrical and Electronics Engineering** – Sri Siddhartha Institute of Technology *(Jun 2020)*

PROFESSIONAL EXPERIENCE

May 2021 – Jul 2023 | Bangalore, India.

Systems Engineer – Cerner Health Care, Bangalore, India *(May 2021 – Jul 2023)*

- Managed system operations across various layers: Frontend (Citrix), Middleware (MQ), Backend (Linux), and Database (Oracle).
- Performed daily operations to ensure system integrity and availability.
- Conducted Linux filesystem management, reboots, patching, and MQ upgrades.
- Automated bulk user creation through scripting.
- Executed kernel upgrades and managed AWS EC2 instances.
- Created IAM users, roles, and groups in AWS.
- Collaborated in cloud infrastructure management using Docker, Jenkins, and Ansible.

Oct 2020 – Mar 2021 | Bangalore, India.

Network Security Associate - Accenture

- Designed and deployed secure network solutions for enterprise clients.
- Conducted penetration testing and vulnerability assessments.
- Managed WAN/LAN network optimization and maintained compliance with security standards.
- Provided technical support for incident management and documented security policies.

ACADAMIC PROJECT

Mousetrap Using Cloud: (AWS, Linux):

- Designed and implemented a sophisticated message processing platform leveraging AWS services for efficient distributed message passing and processing, ensuring high performance and scalability.
- Configured and managed AWS resources, including EC2, RDS, EFS, and S3, to create a robust and scalable infrastructure, optimizing the system's reliability and operational efficiency.
- Developed and optimized a directory tree structure and helper scripts for efficient deployment, configuration management, and code synchronization across multiple virtual machines.
- Engineered a distributed message queue and pipeline system using PHP/SQL, ensuring reliable message delivery and processing across various stages of the mousetrap framework.
- Enhanced deployment speed by 50% with the introduction of automated directory tree structures and helper scripts, reducing manual configuration time from 2 hours to 1 hour.

Cybersecurity Lab Implementations (SEED Security Labs):

As part of my academic journey, I worked extensively with SEED Security Labs, a hands-on cybersecurity education platform. These projects deepened my understanding of security vulnerabilities, exploitation techniques, and mitigation strategies by engaging in real-world scenarios.

Key Areas of Focus

- Network Security – Implemented and analyzed attacks such as ARP spoofing, DNS poisoning, and TCP session hijacking.
- Web Security – Explored and mitigated vulnerabilities including SQL injection, cross-site scripting (XSS), and CSRF.
- Cryptography – Evaluated encryption techniques, performed attacks on weak cryptographic implementations, and applied secure encryption methods.
- System Security – Investigated buffer overflow vulnerabilities, return-oriented programming (ROP), and privilege escalation techniques.

My Contributions

- Configured, executed, and documented security experiments in a controlled lab environment.
- Applied security patches and best practices to harden systems against known vulnerabilities.
- Extended standard lab exercises with additional research and testing to explore deeper security implications.
- Produced detailed technical reports outlining findings, attack methodologies, and recommended countermeasures.

LANGUAGES: English, Hindi, Kannada