

VARUN GODAMBE

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INTRODUCTION

Network and Information Security graduate with hands-on experience in cybersecurity, network defense, and security automation. Strong background in vulnerability assessment, VPN protocol analysis, and secure network design using Kali Linux-based tooling. Actively targeting security, cloud security, and DevSecOps-aligned roles with a focus on building defensible, well-monitored systems.

CORE SKILLS

Cloud & Infrastructure Security: AWS (EC2, IAM, S3), GCP (Compute Engine, Cloud Storage).
Cybersecurity & Tooling: Kali Linux, Nessus, Metasploit Framework, Burp Suite, Wireshark, MobSF, Nmap.
Network & VPN Security: WireGuard, OpenVPN, IPSec/L2TP, IDS/IPS, Firewalls, Network Segmentation.
DevSecOps & Automation: Python (security scripting), Bash/Shell, Ansible (basic), Infrastructure Hardening.
Risk & Compliance: ISO 27001 Controls, CVSS Scoring, Vulnerability Management, Security Assessments.
Networking & Simulation: Cisco Packet Tracer, VLANs, DNS/DHCP, Network Topology Design.
Programming: Python, Bash, Java, C, JavaScript, HTML/CSS.

KEY PROJECTS & RESEARCH

Adaptive Protocol Selector System (APSS) – MSc Dissertation

- Designed a dynamic VPN selection system that evaluates **real-time** network conditions.
- Implemented automated switching logic between **WireGuard, OpenVPN, and IPSec** using Python and shell scripts.
- Built AWS EC2-based test environments with **Kali Linux** clients to simulate real-world network behavior.
- Developed a Python-based monitoring engine for continuous performance evaluation and protocol decisioning
- Conducted comparative analysis of **20+** research papers to justify protocol selection logic and trade-offs.

Security Automation Scripts & Tooling

- Built Python and Bash scripts for **DDoS** simulation testing to evaluate network resilience.
- Automated vulnerability data processing pipelines (**JSON to CSV**) for structured security reporting.
- Focused on reducing manual effort in repetitive security assessment and validation tasks.

Spaced Learning based Adaptive E-Learning Framework – BE Final Year Project (Springer LNNS)

- Engineered an adaptive learning system using spaced repetition and dynamic difficulty adjustment algorithms
 - Implemented models based on Ebbinghaus Forgetting Curve and Leitner Method for retention optimization
 - Added analytics-driven performance tracking, gamification, and research-backed evaluation metrics
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EXPERIENCE

Teaching Volunteer | Kingston University | Nov 2023 – Oct 2024

- Mentored **15+ MSc students** in NIS through structured in-person and remote sessions.
- Designed step-by-step lab walkthroughs for vulnerability assessment, penetration testing, and network defense
- Guided hands-on usage of **Nessus, Metasploit, MobSF, Wireshark, MATLAB, and Simulink** in controlled environments.
- Supported coursework covering cryptography, mobile application security, risk management, and security testing
- Assisted students with dissertation scoping, technical validation, and security-focused report structuring.
- Translated theoretical security concepts into applied lab scenarios and real-world threat models.

Cybersecurity Intern | Cisco Networking Academy | Apr 2021 – Jun 2021

- Performed hands-on cybersecurity labs focused on network segmentation, access control, and threat awareness
- Configured **VLANs, ACLs**, and routing policies to enforce traffic isolation across multiple network zones
- Analyzed network traffic using packet inspection techniques to identify misconfigurations and security risks
- Worked with **IDS/IPS** concepts, firewall rules, and baseline hardening practices in simulated environments
- Designed and tested multi-segment network topologies using Cisco Packet Tracer
- Performed hands-on labs focused on threat awareness, basic IDS concepts, and network hardening

AI/ML Virtual Intern | AICTE & Amazon Web Services | Oct 2021 – Dec 2021

- Built cloud workflows using AWS core services aligned with AWS Cloud Foundations principles.
- Trained and evaluated basic machine learning models using SageMaker notebooks.
- Implemented Lambda-based processing for lightweight automation within cloud pipelines.
- Applied IAM concepts and permission boundaries to ensure secure cloud resource usage.
- Trained and tested basic machine learning models using AWS SageMaker.

Software Intern (API & Tooling) | APSIT Skills & Postman | Jun 2021 – Aug 2021

- Developed a real-time COVID-19 API using Heroku-hosted data sources
 - Managed API lifecycle using Postman with focus on secure endpoint design and testing
 - Earned Postman **API Fundamentals Student Expert** certification through practical implementation
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EDUCATION

- **MSc, Network and Information Security | Kingston University, London | 2023 – 2024**
Relevant Coursework: Cryptography & Network Security, Penetration Testing, Cloud Security, Risk Management
 - **Bachelor of Engineering, Information Technology | University of Mumbai | 2017 – 2022**
Relevant Coursework: Computer Networks, Operating Systems, DBMS, Software Engineering, Web Development.
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CERTIFICATIONS

HCIA Security | CCNA | AWS Cloud Foundations | AWS Machine Learning Foundations | Microsoft Security Essentials | ISO 27001 Annex A Controls | Docker Essentials.
