



# Sumit M. Bide

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## 📖 About Me

Enthusiastic and self-driven cybersecurity learner with hands-on experience in setting up home labs, securing systems, and exploring vulnerabilities in real-world environments. Proficient with tools such as Nmap, Wireshark, and Burp Suite. Strong understanding of system hardening, network security, and log analysis. Actively seeking an entry-level role as a SOC Analyst, Jr. Penetration Tester, or Security Analyst to apply practical skills in a professional setting.

## 🧠 Skills

### Cybersecurity & Threat Analysis

Proficient in identifying vulnerabilities, analyzing attack vectors, and monitoring suspicious activity using tools like Wireshark, Nmap, and Suricata

### Linux & Scripting

Comfortable with Linux command-line environments; can automate tasks and perform log parsing and system hardening using Bash scripts.

### Soft Skills

Detail-oriented, strong documentation habits, independent learner, and adaptable—comfortable in both collaborative and individual environments.

### Network Security

Strong grasp of networking concepts (TCP/IP, DNS, DHCP, routing, VLANs, NAT) and security controls such as firewalls, IDS/IPS, and endpoint protection.

### Lab & Research-Oriented Mindset

Maintains a home lab for testing security tools, simulating attacks, managing servers (NAS, Plex), and experimenting with custom OS deployments.

### Penetration Testing & Vulnerability Assessment

Hands-on experience with reconnaissance, port scanning, and web app testing using Burp Suite, Metasploit, and Nikto. Understanding of OWASP Top 10 vulnerabilities.

### Mobile & Endpoint Security

Experience securing Android environments, including de-Googling, permission management, and rooting/flashing privacy-respecting custom ROMs.

### Security Operations & Monitoring

Familiar with SIEM platforms, log analysis, alert triage, and incident response workflows—core to SOC operations and threat detection.

### IT Auditing Fundamentals

Basic understanding of risk assessment, compliance standards (e.g., ISO 27001, NIST), asset inventory, and documenting security posture.

## Projects

### **Kali linux nethunter**, contributed to kali nethunter project

01/2024 – Present

Contributed to Kali Linux NetHunter by developing custom kernels and installers for Redmi Note 4 (mido). Gained expertise in Linux kernel customization, embedded system security, and mobile penetration testing platform development. Enhanced skills in cross-platform security tool adaptation and embedded device hardening.

### **Library Management System**

Developed a secure Online Library Management System using PHP, MySQL, and Apache within a Linux environment. Gained hands-on experience in web application development, database management, and implementation of security best practices including user authentication, input validation, and access control. Enhanced skills in identifying and mitigating common web vulnerabilities.

### **Banking System (Full-Stack Project)**

Developed a secure full-stack banking application with features like account creation, authentication, money transfers, and transaction history. Integrated strong security controls including SHA-256 password hashing, JWT-based authentication, input validation, and CORS protection. Emphasized secure coding practices, transaction auditing, and threat modeling to align with real-world compliance, monitoring, and penetration testing considerations.

## Certificates

### **Cisco Introduction to cybersecurity**

Gained foundational knowledge of cybersecurity concepts including the CIA triad, common attack vectors, malware types, network defense mechanisms (firewalls, IDS/IPS), cryptography basics, and security best practices. Covered risk management, incident response fundamentals, and emerging career paths in information security.

## Education

**Diploma in computer engineering**, Vasant Rao More Polytechnic, Tehu 

06/2025 – Present  
Parola, MH

**HSC**, Little Valley Primary School & Jr. College, kasoda

2023 – 2024  
kasoda, MH

**SSC**, Swami Vivekanand Vidya mandir, Dattanagar

06/2018 – 03/2019  
Dombivli, MH

## Languages

English



Marathi



Hindi



## Interests

**Cybersecurity & Ethical Hacking** — I am passionate about exploring system vulnerabilities, threat detection, and ethical practices in offensive and defensive security.

**CTF Challenges & Reverse Engineering** — I enjoy participating in Capture The Flag challenges and exploring basic binary exploitation and reverse engineering techniques.

**Home Lab & Server Builds** — I actively build and maintain custom server environments for NAS, Plex media, and Android ROM/kernel compilation.

**Linux Systems & Shell Scripting** — Comfortable navigating Linux environments with growing experience in automating tasks using shell scripts.