Vandit Barola

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SUMMARY

Cybersecurity and Software Development enthusiast with hands-on experience in firewalls, encryption systems, and secure communications. Seeking roles in SOC operations, penetration testing, or full-stack development to build secure, scalable digital solutions.

EDUCATION

- **BTech in Computer Science & Engineering** *September/2022 - April/2026*
  Bennett University (CGPA: 9.11/10.00) Greater Noida, India

EXPERIENCE

- **BlueRose Technologies** *June/2024 - August/2024*
  Software Trainee - Intern Banglore, India
  Tech Stack: Python, React.js, JSX, JavaScript, REST API, CSS, HTML, Mongo db
  ◦ Developed a dashboard application consolidating real-time metrics, used by 20+ team members.
  ◦ Migrated the app to React and Node.js, reducing load time and improving user engagement by 25%.

CERTIFICATIONS

- **Certified Ethical Hacker Certification by EC-Council** *December/2024*
- **Certified SOC Analyst v1** *May/2025*

PROJECTS

AgniShield : Centralized Web Console with Context-Aware Firewall System August 2024
Tech Stack: Python, AI-ML, React.js, JSX, JavaScript, CSS, HTML, Mongo db, chrome-extensions
- Built a real-time adaptive firewall, increasing protection against cyberattacks by 75%.
- Integrated security tools into a single interface, enhancing management efficiency.

Parasmani Gems - E-commerce Platform June 2024
Tech Stack: React.js, Next.js, Node.js, MongoDB, Tailwind CSS
- Constructed a jewelry e-commerce site with product management, payments, and order processing.
- Utilized React.js, Tailwind CSS, and Next.js for responsive design and optimal performance.

Bio - PKI: Biometric-enabled Public Key Infrastructure March 2024
Tech Stack: Cryptography, Node.js, React.js, REST API, MongoDB, JWT, Express.js
- Developed a biometric-based encryption system, enhancing security of online transactions by 40%.
- Applied advanced cryptographic algorithms for enhanced authentication processes.

HideX: Steganography Project January 2024
Tech Stack: Python, Linux, VS Code
- Developed a secure communication system using steganography, increasing efficiency by 81%.
- Integrated steganalysis techniques to detect unauthorized data hiding in images.

Track Map - OS November 2023
Tech Stack: PHP, Kali Linux, HTML, CSS, JavaScript
- Created a deceptive website to capture device and location data for analysis.
- Implemented cross-browser compatibility to ensure seamless data collection on different devices.

SKILLS

- **Core Cybersecurity Skills:** Vulnerability Assessment, Wireshark, Cryptographic Systems, SOC Monitoring
- **Programming Languages:** C++, Python, mySQL, MongoDB, Bash Scripting
- **Web Technologies:** React.js, JSX, JavaScript, HTML, CSS, Tailwind CSS, Next.js, Node.js, REST APIs
- **Specialized Area:** WireShark, Linux, Bash Scripting, Vulnerability Assessment, Cryptographic Systems
- **Other Tools & Technologies:** Photoshop, Canva, ChatGPT, Kali Linux

BOOK CHAPTER

"Healthcare Industry Assessment: Analyzing Risks, Security, and Reliability," Springer (2024) [Published]
- Chapter: Introduction to Security Risk Assessment in Medical and Healthcare Industry. Lead Author: Vandit Barola.

CONFERENCE PAPER PRESENTATION

BioPKI: Identity Authentication with Biometric Public Key Infrastructure in Healthcare Systems December, 2024
Presented at the IEEE International Conference on Advanced Networks and Telecommunications Systems, 2024. [Approved]

Enhancing Cyber Security Protocols in Distributing Enviornments with Advanced Cryptographic Techniques December, 2024
Presented at the 13th International Conference on SMART-2024. [Published]