

Vandit Barola

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EDUCATION

• BTech in Computer Science & Engineering

Bennett University (CGPA: 9.16/10.00)

September/2022 - April/2026

Greater Noida, India

INTERNSHIP EXPERIENCE

• Soul2Soul Technologies

Frontend Intern

Tech Stack: HTML, CSS, JavaScript, React.js, Photoshop, Canva

- Designed and developed the complete company website for a cryptocurrency-based startup.
- Created the company's official logo and business card set for branding and marketing.

February/2025 - April/2025

Remote

• Parasmani Gems

Full-Stack Intern

Tech Stack: React.js, Next.js, Node.js, MongoDB, Tailwind CSS

- Developed a responsive, high-performance e-commerce platform for a luxury jewelry brand.
- Implemented product management, secure payment integration, and order processing systems.

September/2024 - December/2024

Ajmer, India

• BlueRose Technologies

Software Trainee - Intern

Tech Stack: Python, React.js, JSX, JavaScript, REST API, CSS, HTML, MongoDB

- Developed a dashboard application consolidating real-time metrics, used by 20+ team members.
- Migrated the app to React and Node.js, improving load time and user engagement.

June/2024 - August/2024

Bangalore, India

ACADEMIC PROJECTS

Aatma.AI – Personalized AI Assistant (Local)

Tech Stack: Python, LLM, Local APIs, OpenCV, PyPDF2, Web Scraping, Electron.js, LLangchain

Ongoing

- Built a long-term memory AI assistant that runs fully offline on a local laptop without API keys.
- Supports persistent usage with web search, image creation, and document analysis.
- Runs as a widget on the laptop, achieving over 99% accuracy with unlimited file uploads.

BahiKhata – Offline Billing & Inventory Management Software

Tech Stack: Python, SQLite, Tkinter, jsPDF, jsPDF-AutoTable

July 2025

- Developed an offline desktop application for dynamic billing, inventory tracking, and customer management.
- Integrated PDF invoice generation with SMS/WhatsApp sharing, payment status tracking, and sales analytics.

SureLink – AI-based Phishing and Malware Website Detector

Tech Stack: Python, TensorFlow, Flask, Sklearn, React.js

March 2025

- Tested on 1000+ websites, achieving 87% accuracy in detecting malicious/phishing domains.
- Built a user-facing web dashboard to classify and analyze suspicious URLs in real-time.

Mukhdarshak – Personalized Laptop Security App

Tech Stack: Python, OpenCV, Telegram API, Windows API

February 2025

- Created a Windows login overlay with facial recognition to prevent unauthorized access.
- Triggers system shutdown and sends intruder image, date, and time to Telegram if verification fails.
- Packaged the project as a .exe app for direct installation and .bat to use on Windows devices.

AgniShield : Centralized Web Console with Context-Aware Firewall System

Tech Stack: Python, AI-ML, React.js, JSX, JavaScript, CSS, HTML, Mongo db, chrome-extensions

August 2024

- Built a real-time adaptive firewall, increasing protection against cyberattacks by 75%.
- Integrated security tools into a single interface, enhancing management efficiency.

Bio - PKI: Biometric-enabled Public Key Infrastructure

Tech Stack: Cryptography, Node.js, React.js, REST API, MongoDB, JWT, Express.js

March 2024

- Developed a biometric-based encryption system, enhancing security of online transactions by 40%.
- Applied advanced cryptographic algorithms for enhanced authentication processes.

HideX: Steganography Project

Tech Stack: Python, Linux, VS Code

January 2024

- Developed a secure communication system using steganography, increasing efficiency by 81%.
- Integrated steganalysis techniques to detect unauthorized data hiding in images.

VOLUNTEER PROJECTS

BWTechh	Built a responsive website using React.js, Framer Motion, HTML, CSS, and JavaScript and designed visuals.
AayushPlus	Developed a WordPress-based website; designed product packaging and awareness creatives.
JainDirect	Designed membership campaign media, event banners, and promotional content using Canva and AI tools.
Gala Home	Created catalogs, logos, and branding assets using Canva and AI-based design tools.

RESEARCH PUBLICATIONS

"A Recent Survey on Multi-modal Medical Image Fusion," <i>Biomedical Informatics and Smart Healthcare (ICCK)</i> , Accepted, 2025. (Lead Author)
"Bi-SWT-GAN: A Hybrid Guided Filter-based Multimodal Medical Image Fusion using Pre-Trained GAN Model," <i>The Open Bioinformatics Journal</i> , Under Review, 2025. (Lead Author)
<ul style="list-style-type: none">Research focuses on multimodal medical image fusion using deep learning and GAN-based hybrid approaches.Contributions aim to enhance diagnostic accuracy and clinical decision-making in healthcare imaging.

BOOK CHAPTER

"Healthcare Industry Assessment: Analyzing Risks, Security, and Reliability," Springer, 2024. (Lead Author)

CONFERENCE PAPERS

BioPKI: Identity Authentication with Biometric Public Key Infrastructure in Healthcare Systems, IEEE ANTS, 2024. (Published)
Enhancing Cyber Security Protocols in Distributed Environments with Advanced Cryptographic Techniques, SMART International Conference, 2024. (Published)

SKILLS

<ul style="list-style-type: none">Core CS Skills: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), DBMS, Computer Networks (CN), Problem Solving, Scalability & OptimizationProgramming Languages: C++, Python, JavaScript, SQL, MongoDBWeb Development: React.js, Next.js, Node.js, Express.js, REST APIs, HTML, CSS, Tailwind CSSDeployment & Tools: Git, GitHub, Vercel, Netlify, Hostinger, Postman, VS CodeCybersecurity: Vulnerability Assessment, Cryptographic Systems, SOC Monitoring, Wireshark, Kali Linux, Bash ScriptingOther Tools & Technologies: Photoshop, Canva, ChatGPT, OpenCV

AWARDS AND ACHIEVEMENTS

Hackathons: Cyber Cup 3.0 (2023) Finalist AgniShield – 1st Position in Cybersecurity Track Navdhara'2024 Finalist
Academics: Secured 2nd Position in Senior Secondary School
Recognition: Uttarakhand Governor’s Appreciation for “HideX” project, proposed for Indian Army use.

CERTIFICATIONS

<ul style="list-style-type: none">Certified Ethical Hacker Certification by EC-CouncilCertified SOC Analyst v1	<div>December/2024</div> <div>May/2025</div>
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