

ANUBHAB DAS

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PROFESSIONAL SUMMARY

Results-driven Cyber Security student and Web Developer with hands-on industry experience in secure application development, ML-based threat detection, and applied security research. Proficient in Python, Flask, JavaScript, and REST API integration, with a strong foundation in OWASP Top 10, JWT authentication, and secure coding practices. Published researcher with 4 peer-reviewed papers spanning Blockchain Security, IoT, TinyML, and Federated Learning. Passionate about building scalable, security-first systems and open-source cybersecurity tooling.

TECHNICAL SKILLS

Languages: Python, JavaScript, C, HTML5, CSS3

Frontend: React, Bootstrap, Chart.js, Canvas API, Responsive Design, REST API Integration

Backend: Flask, Node.js, REST APIs, NLP, AI Integration

Cyber Security: OWASP Top 10, XSS Prevention, SQL Injection, CSRF Protection, JWT, bcrypt, Data Encryption, Rate Limiting, Threat Analysis, IAM, Phishing Detection

AI / ML: Scikit-learn, Pandas, NumPy, TinyML, Federated Learning, Gemini AI API, LLM Integration

Databases & Tools: SQLite, SQL, Git, GitHub, VS Code, Formspre, WebRTC

Cloud / Deployment: Vercel, GitHub Pages, Agile Development

WORK EXPERIENCE

Associate L1 — Web Development Intern

Infotact Solutions

Aug 2025 – Oct 2025

Kolkata, India

- Collaborated on end-to-end feature development, testing, and deployment for client web applications following secure coding standards and OWASP Top 10 guidelines.
- Implemented automated secure code checks, reducing code-level vulnerabilities identified in QA by an estimated 30%.
- Conducted pull request reviews for regression prevention, improving production stability across multiple releases.
- Partnered with QA teams to maintain production code quality with zero critical incidents during the internship period.

Full-Stack Web Development Intern

Prodigy InfoTech

July 2025

Remote

- Designed and delivered multiple full-stack web applications integrating Flask backends with responsive HTML/CSS/JavaScript frontends.
- Enforced JWT authentication, bcrypt hashing, SQL injection prevention, and XSS protection throughout all delivered projects.
- Received a Letter of Recommendation and outstanding performance remarks for exceptional quality project delivery.

Website Design & Development Intern

iStudio

Aug 2024 – Sep 2024

Remote

- Built and delivered responsive web interfaces with cross-browser compatibility, accessibility compliance, and security-aware front-end coding.
- Applied modern UI/UX design principles in a client-requirement-driven workflow, completing all deliverables ahead of schedule.

PROJECTS

NexusScan — URL Threat Scanner | *Python, Flask, Scikit-learn, Gemini AI, HIBP API, Chart.js*

[GitHub](#) | [Live](#)

- Architected a real-time cybersecurity platform using a hybrid ML and rule-based engine for phishing and web threat detection across URLs and QR codes.
- Integrated Gemini AI API for natural-language security explanation reports; implemented SSL/TLS validation, WHOIS intelligence, and HIBP breach lookup.
- Deployed on Vercel with HTTPS; added QR code scanning via Html5Qrcode with full privacy-first, client-side processing.

CyberASCII — Real-Time ASCII Visualization Tool | *Node.js, Canvas API, WebRTC, Chart.js, Gemini AI API*
[GitHub](#) | [Live](#)

- Built a real-time platform converting live camera feeds and images into terminal-style ASCII art using WebRTC and Canvas API.
- Secured with local-only camera processing, server-side API key protection, CSP headers, and image validation; deployed

on Vercel with HTTPS/TLS.

- Integrated Gemini AI for context-aware image analysis, extending platform capabilities beyond visual art generation.

Secure User Authentication System | *HTML, CSS, JavaScript, JWT, bcrypt*

[GitHub](#) | [Live](#)

- Engineered a production-grade authentication system with bcrypt password hashing, JWT session management, login rate limiting, and CSRF protection.
- Enforced full OWASP Top 10 compliance including XSS prevention and secure session lifecycle management.

Local Grocery E-Commerce Platform | *HTML, CSS, JavaScript, Python, Flask, SQLite*

[GitHub](#) | [Live](#)

- Built a full-featured e-commerce solution with inventory management, cart system, and secure payment processing integration.
- Applied layered security: input sanitization, SQL injection prevention, XSS protection, and data encryption at rest; deployed on Vercel.

EDUCATION

B.Sc. in Cyber Security

Guru Nanak Institute of Technology (GNIT), MAKAUT

2024 – 2028

Kolkata, India

Higher Secondary — Class XII

Baranagar Narendranath Vidyamandir, WBCHSE

2024

Kolkata, India

Secondary — Class X

Baranagar Narendranath Vidyamandir, WBBSE

2022

Kolkata, India

PUBLICATIONS

- “Hardware-Aware Co-Design Framework for Efficient TinyML Deployment on Ultra-Low Power Edge Devices,” *TinyML-Enabled IoT Systems*, Jun. 2026. DOI: 10.5281/zenodo.20664090
- “Offline-First TinyML–Federated Learning Framework for Privacy-Preserving and Energy-Efficient Smart Healthcare Systems,” *TinyML-Enabled IoT Systems*, Jun. 2026. DOI: 10.5281/zenodo.20664766
- “A Systematic Review of Blockchain-Based Security Architectures for Trusted Cloud Data Sharing: Threat Models and Open Challenges,” *Journal of Techniques–Sciences–Methodes (UGC-CARE Group II)*, vol. 10, no. 4, Apr. 2026. DOI: 10.5281/zenodo.1387322
- “Blockchain Based IoT Security: A Comprehensive Review of Architectures Challenges and Future Directions,” in *Proc. ICRCICN 2025*, Dec. 2025. DOI: 10.1109/ICRCICN68210.2025.11364679

CERTIFICATIONS

- **Cybersecurity Analyst Job Simulation** (IAM, Strategy Assessment, Platform Integration) — Forage Jan 2025
- **Cybersecurity Job Simulation** (Phishing Email Analysis & Simulation) — Forage Feb 2025
- **Introduction to Critical Infrastructure Protection (CIP)** — OPSWAT Academy Feb 2025
- **Introduction to Cybersecurity** — Cisco Networking Academy Feb 2025
- **React Project Bootcamp** — SkillEcted Campus Program Aug 2025
- **JavaScript Bootcamp** — ITM Edutech Training Pvt. Ltd. May 2024

ACHIEVEMENTS & EXTRACURRICULAR

- **All India NCAT-26 (AINCAT 2026)** — Scored 548/800 with All India Rank **2096** nationwide Jun 2026
- **IEEE Publication — ICRCICN 2025** — Peer-reviewed paper on blockchain IoT security architectures Dec 2025
- **Event Co-Head** — Creative Strokes, Euphonious X Zyzzyva 2K26, GNIT; led event logistics and team coordination 2026
- **Bharatiya Antariksh Hackathon 2025 (ISRO)** — Submitted innovative idea; received official acknowledgment certificate 2025
- **2nd Position — GNIT Extempore Competition**, Dept. of B.Sc. Cyber Security & Data Science Aug 2024
- **Campus Ambassador** — Selected by InternsVeda in collaboration with Digital India / MSME initiative Nov 2024
- **Class Representative** — B.Sc. Cyber Security, GNIT; liaison between students and faculty, coordinating academic and departmental activities Apr 2024 – Present
- **SkillHigh Web Development Hackathon 2025** — Competed as member of Cyberians Team Sep 2025