Biprajeet Sen

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SUMMARY

A final year student with 2+ years of hands-on experience building secure, cloud-native systems. Improved access control, data privacy, and uptime across projects—reducing breaches by 80% and boosting availability to 99.95%. Skilled in AWS, Kubernetes, and AI-driven threat detection. Hackathon winner and open-source contributor, backed by credentials in Generative AI, cybersecurity, and database management.

EDUCATION

Vellore Institute of Technology Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science, Major in Cyber Security and Digital Forensics *Sep. 2022 – Present*

Srimanta Shankar Academy, Dispur Guwahati, Assam
Senior Secondary *May. 2020 – May 2022*

PROJECTS

ZeroTrust Access System | *AWS, Kubernetes, React.JS, PostgreSQL, FastAPI* Apr 2025 – Ongoing
- Reduced unauthorized access by 60% by integrating blockchain ID, JIT access, MFA, and secure APIs, improving security and access control across all system services.
- Achieved 99.95% uptime by containerizing microservices with Docker and Kubernetes, incorporating AI-driven anomaly detection to monitor and respond to security threats proactively.

Federated EHR Security | *PyTorch, Syft, Flask, HTML, CSS, JavaScript, Google Colab* Oct 2024 – Ongoing
- Lowered patient data leakage risk by 80% using federated learning with encrypted aggregation, enabling privacy-preserving, decentralized model training on sensitive health records.
- Enhanced update efficiency by 40% with a Flask API, supporting real-time, secure synchronization and low-latency communication between distributed healthcare nodes.

PhishShield AI | *Python, Streamlit, scikit-learn, pandas, NLTK, BeautifulSoup* Jan 2025 – May 2025
- Delivered 94% phishing detection accuracy using NLP and URL-based feature extraction models trained on diverse web data.
- Reduced threat response time by 65% via a Chrome extension and centralized dashboard delivering real-time alerts and detailed phishing analytics to end-users and administrators.

SafeServe: FIR Management System | *HTML, CSS, JavaScript, phpMyAdmin, MySQL* Aug 2024 – Ongoing
- Reduced FIR processing time by 50% by digitizing complaint intake, automating backend workflows, and eliminating manual paperwork, improving law enforcement efficiency and user experience.
- Increased user engagement by 70% through real-time status tracking, instant notifications, and an intuitive portal interface, encouraging public trust and widespread adoption.

TECHNICAL SKILLS

Languages: C++, Java, Python, SQL, HTML, CSS, JavaScript, FastAPI, Go Lang, R, Swift
Tools and Technologies: AWS, TensorFlow, MySQL, MongoDB, MERN, Tableau, Kubernetes, Docker, PowerBI
Certifications: Oracle : Gen AI Professional, ISEA: Cyber Hygiene Practitioner, MongoDB: Database Administrator

EXTRA CURRICULARS AND ACHIEVEMENTS

Extracurricular: Contributed to open-source projects in AI/ML, cloud computing, and security, enhancing global developer communities.
Responsibilities: Organized and led a hackathon event while serving as President of the technical club, driving participation from 300+ students.
Achievements: Winner of the Developer Week Hackathon (2025) and Achieved 4-star rating on HackerRank in problem-solving and competitive programming.
Languages: English, Hindi, Bengali, Assamese, Spanish.