Roshni Sharma

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SUMMARY

Aspiring Software Development Engineer with a strong foundation in Computer Science and a domain focus in Cybersecurity and Digital Forensics. Proficient in object-oriented programming, data structures, and software design, with demonstrated success in building secure systems and impactful technical projects. Eager to contribute to scalable backend systems and secure architectures.

SKILLS

- **Languages:** Java, Python, JavaScript, SQL
- **Frameworks/Tools:** Spring Boot, React.js, Kafka, Docker, Kubernetes, Prometheus, Grafana, Git, VS Code
- **Web Technologies:** HTML, CSS, REST APIs, Microservices Architecture, Axios, WebSockets
- **Databases:** PostgreSQL, MySQL, Elasticsearch, MongoDB
- **DevOps & Cloud:** Docker Compose, Helm, Kubernetes (basic), CI/CD (concepts), Monitoring Observability
- **Cybersecurity:** Kali Linux, Wireshark, Burp Suite, Digital Forensics (Basics)
- **Soft Skills:** Leadership, Problem-solving, Teamwork, Time Management
- **Problem Solving:** Strong grasp of Data Structures and Algorithms including Arrays, Strings, Trees, Graphs, Dynamic Programming, Greedy, Recursion

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EDUCATION

VIT Bhopal University Nov 2022 – Present
B.Tech in Computer Science and Engineering (Specialization: Cybersecurity and Digital Forensics)
CGPA: 8.81

EXPERIENCE

The Red Users Feb 2025 – Mar 2025
Incoming Cyber Security Intern

- Undergoing simulated penetration testing training and SIEM-based log analysis.
- Learning secure coding practices and applying NIST, ISO 27001 guidelines.

LEADERSHIP & INVOLVEMENT

Founder, North-East Club VIT Bhopal — May 2024 – Present

- Founded and led 100+ member cultural club; coordinated large-scale events and logistics.
- Organized 3+ regional events with 500+ attendees; improved cultural inclusivity on campus.

TECHNICAL PROJECTS

Fake Profile Detection Using Multilayer Perception (MLP) Aug 2023 – Oct 2023
Cybersecurity + Machine Learning Developer

- Developed a deep learning-based fake profile detection engine using TensorFlow and Keras, achieving 90–98% accuracy across datasets from multiple social platforms.
- Preprocessed large social media datasets with Pandas, Scikit-learn and NumPy, implementing scaling and cleaning pipelines.
- Built and evaluated MLP architectures with dropout, ReLU activation, and softmax output layers, improving generalization by 12%.
- Visualized performance using confusion matrices, precision/recall graphs, and validation loss curves for robust model interpretation.

Tools: Python, TensorFlow, Keras, Pandas, NumPy, Scikit-learn, Matplotlib

SmartBank Branch & ATM Management Platform (JPMC Virtual Experience) May 2024
Full-Stack Cloud Developer (Java, React, DevOps)

- Built a scalable, microservices-based cloud-native platform to simulate real-world ATM and branch operations for over 5,000+ retail locations and 17,000+ ATMs in the U.S.
- Developed RESTful Spring Boot APIs for CRUD operations, integrated with PostgreSQL and Apache Kafka for real-time transaction updates and alerts.
- Created an interactive React.js frontend with maps, filters, and dashboard analytics using Leaflet and Chart.js.
- Deployed services using Docker and Kubernetes, with observability via Prometheus and Grafana dashboards for service uptime and health monitoring.
- Demonstrated infrastructure automation, service orchestration, and production-grade scalability using Helm, HPA, and K8s services.

Tools: Java, Spring Boot, React.js, PostgreSQL, Elasticsearch, Kafka, Docker, Kubernetes, Helm, Prometheus, Grafana, Leaflet, Chart.js

UniSync – College Collaboration Portal for Clubs, Events & Projects Jan 2024 – Mar 2024
Full-Stack Developer (React, Node.js, MongoDB, Tailwind)

- Designed and developed a feature-rich platform for students to discover and join clubs, events, and interdisciplinary team projects across departments.
- Built secure user authentication (JWT), profile dashboards, and real-time RSVP and project-matching features using Node.js/Express backend and MongoDB Atlas.
- Created a responsive UI using React.js and Tailwind CSS, with real-time updates and alerts powered by WebSockets and Zustand for state management.
- Integrated role-based access (Admin, Club Lead, Student) and custom dashboards to support dynamic user workflows.
- Deployed the app on Render with GitHub CI/CD, ensuring rapid feature rollout and staging environment tests.

Tools: React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Redux, WebSockets, JWT, Render, GitHub CI/CD

CERTIFICATIONS

Python Essentials Vityarthi, 2023
Core Python for ML, cybersecurity, and data-driven applications.

Industrial IoT Markets and Security Coursera, 2023
Covered IIoT architecture and foundational cybersecurity principles.