

SAMPADA TIWARI

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PROFESSIONAL SUMMARY

MCA graduate with hands-on experience building AI-powered full-stack web applications using React.js, Next.js, FastAPI, Python, JavaScript, and TypeScript. Experienced in developing scalable REST APIs, integrating LLMs for intelligent automation, and deploying containerized applications using Docker. Skilled in modern software engineering, DevOps fundamentals, and cloud-native development, with a strong interest in building secure, scalable, and AI-driven software solutions.

TECHNICAL SKILLS

Programming Languages: JavaScript(ES6+), Java, Typescript, Python.

Frontend: React js, Next.js, HTML5, CSS3, Tailwind CSS.

Backend: Node.js, RESTful API, FastAPI, Django, SpringBoot, Microservices.

Database & DevOps: Docker, Terraform, Kafka, Kubernetes (containers), SQL Server.

Tools: Git(Version Control), Visual Studio Code, IntelliJ IDEA, Maven, Gradle, Agile/Scrum.

Core Concepts: System Design, Database Management System, Operating System, Linux(Basics).

PROJECTS

Secure AI Ops | AI Powered DevOps Incident Prioritization Platform | [GitHub Link](#) March 2026 - July 2026

Tech Stack: Next.js, React, TypeScript, FastAPI, PostgreSQL, Docker, ChromaDB, Ollama (LLM)

- **Developed** an AI-powered DevOps platform that analyzes infrastructure logs and prioritizes incidents using explainable LLM-based root cause analysis.
- **Built** scalable REST APIs with FastAPI and PostgreSQL to support log ingestion, vector search, incident classification, and structured reporting.
- **Implemented** incident prioritization, confidence scoring, remediation recommendations, and interactive dashboards using Next.js and React.
- **Reduced** manual log triage by consolidating multi-source operational data into an AI driven workflow, enabling faster incident investigation and decision-making.

PhishShield AI | AI Email Phishing Detection Platform | [GitHub Link](#) July 2025 - November 2025

Tech Stack: React.js, Tailwind CSS, FastAPI, PostgreSQL, SQLAlchemy, OpenAI GPT API, Docker

- **Developed** an AI-powered phishing detection platform that analyzes sender authenticity, email content, and embedded URLs to identify malicious emails.
- **Engineered** an explainable detection engine that generates risk scores, classifies emails, and provides AI-generated security recommendations.
- **Built** RESTful APIs using FastAPI and PostgreSQL while developing a responsive React-based interface with scan history and real-time analysis.
- **Automated** phishing detection by combining GPT-powered analysis with rule-based validation, improving investigation speed and user awareness.

WORK EXPERIENCE

GirlScript Summer of Code

Discord Moderator – Technical support & engagement

August 2025 - November 2025

Pune, Maharashtra

- **Resolved** 500+ member technical queries on Git workflows, project setup, and contribution guidelines across the open-source community.
- **Reduced** response time to technical issues by restructuring Discord channels and implementing dedicated support threads for recurring questions.
- **Guided** contributors in GitHub workflows, improving onboarding and participation during GirlScript Summer of Code.
- **Coordinated** with mentors and moderators to ensure timely issue resolution and smooth community engagement.

EDUCATION

MCA Computer Application **Banasthali Vidyapith, Jaipur** July 2024 - May 2026 | CGPA: 7.09

BCA Computer Application **Banasthali Vidyapith, Jaipur** July 2021 - May 2024 | CGPA: 7.02

ACHIEVEMENTS & EXTRACURRICULAR

- Winner, Hack Celestia Hackathon 2023, Banasthali Vidyapith.
- Top 100 Global Action Ambassador, Global Goals Summit 2025, represented India on a global platform.
- Official Delegate, BRICS Summer School Summit 2025, showcased Indian youth leadership on an international stage.