

SHREYAS SANKPAL

Software and Security | Computer Engineer | Cybersecurity Student
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EDUCATION

New York University, NY

Sep 2025 – May 2027

Masters in Cybersecurity at Tandon School of Engineering

(GPA: 4.0)

Courses: Information Security and Privacy, Application Security, Machine Learning, Cloud Computing, Post Quantum Cryptography

University of Mumbai, India

Dec 2020 - May 2024

Bachelor of Technology in Computer Engineering

(CGPA 9.17/10)

Specialization in Network and Information Security and Honors in Blockchain Technology

Relevant Courses: Data Structures, Analysis of Algorithms, Advanced Computer Networks, Cryptography and System Security, Information and Cloud Security, Ethical Hacking and Digital Forensics, Cybersecurity and Laws, Machine Learning, AI

PROFESSIONAL EXPERIENCE

Impact Analytics, Bengaluru, India

May 2024 – Jun 2025

Software Engineer (Backend - Python)

- Developed and maintained RESTful APIs using FastAPI and GCP (BigQuery, Buckets, Cloud Run, Cloud Tasks, Cloud Scheduler, Pub/Sub); managed database operations, including writing and optimizing stored procedures in PostgreSQL
- Spearheaded an initiative for client onboarding automation for the InventorySmart SaaS product, designing a new workflow that reduced manual developer tasks by over 70%; received spot award for exceptional contribution to the organization
- Pioneered migration of ELK (Elasticsearch, Logstash, Kibana) logging framework to Grafana dashboards, increasing observability to identify optimization potential in code pipelines across 10+ SaaS products
- Launched and owned an internal ticketing system feature based on Mojo Helpdesk API for streamlined production issues tracking

Coditas, Pune, India

Jan 2024 – Apr 2024

Associate Software Engineer (Backend - Node)

- Completed an intensive full-stack web application development program with a specialization in backend development, gaining advanced proficiency in Node.js, TypeScript, and software design patterns
- Created a capstone project with a focus on clean coding and security, developing secure REST APIs for user authentication and role-based access implementing both JWT and OAuth 2.0 protocols
- Built foundational expertise across the web stack, including relational (SQL) and NoSQL (MongoDB) databases, Object-Oriented Programming (OOP) principles, and version control with Git

Cyber Secured India, Navi Mumbai, India

Nov 2022 – Feb 2023

Cyber Security and Digital Forensics Intern

- Analyzed and exploited common web vulnerabilities within a structured training curriculum, applying tools like namp, BurpSuite, Metasploit and Wireshark in 20+ labs on HackTheBox and PortSwigger
- Promoted to Vulnerable Machine Developer after demonstrating advanced exploitation skills during training and lab evaluations
- Created and deployed 5+ intentionally vulnerable web apps using Flask, PHP, and MySQL on Vagrant-based Ubuntu Server VM instances for Capture the Flag (CTF) competitions and training content

TECHNICAL SKILLS AND ACTIVITIES

- Web Development: Python, FastAPI, Node.js, Express.js, React, TypeScript, JavaScript, HTML, CSS, SQL, PostgreSQL, MongoDB
- Cloud & Infrastructure: Google Cloud Platform (BigQuery, Cloud Run/Tasks/Scheduler, Pub/Sub, Buckets), Docker, Kubernetes
- Tools & Systems: Git, Linux, Postman, Selenium, Wireshark, Burp Suite, C Programming, Bash Scripting
- Hackathons – Smart India Hackathon, KAVACH 2.0, Project DeepBlue
- Certifications – Postman API Fundamentals Student Expert, freeCodeCamp Responsive Web Design
- Clubs & Activities: Member – NYU OSIRIS (Offensive Security, Incident Response, and Internet Security) Lab & IEEE NYU

PROJECTS

AI Minutes of Meeting: SAARANSH

- Led a 4-member team to build an AI-driven meeting minutes generator, fine-tuning BART-large on AMI & ICSI datasets; extended model context from 1024 to 8000+ tokens using n-gram overlap for long transcripts
- Built an autonomous Google Meet bot (Node.js, Puppeteer) and deployed a microservices system (React, AWS, AKS) for scalable real-time communication with the transcript and summary generation servers; earned 2 copyrights and a merit position at the Aavishkar Research Convention 2024

Tracing E-Messages using Digital Stamping

- Collaborated in a 6-member team during the Smart India Hackathon to design and prototype a system for tracking electronic messages using elliptic-curve based digital signatures and blockchain based smart contracts
- Implemented an API gateway in Node for smart contract integration and a React dashboard to visualize the origin and spread of flagged messages for monitoring by law enforcement. Presented a poster at Conference on Technologies for Future Cities 2022