# Swayam Prakash Yadav

Lucknow, Uttar Pradesh

📞 +91 8881160449   ✉ swayamsb50@gmail.com   in LinkedIn   ⌾ GitHub

## SUMMARY

Cybersecurity and Data Science undergraduate with experience in backend software development, distributed systems, and security-focused applications. Skilled in C/C++, Python, Go, and JavaScript, with hands-on exposure to threat detection, reverse engineering, log analysis, and defensive security techniques. Interested in secure system design, automation, and AI-assisted security workflows.

## EDUCATION

**Vellore Institute of Technology**                                    Jun 2024 – Jun 2028
*B.Tech CSE(Cyber Security)* **(CGPA: 8.95)**                                *Vellore, India*

**IIT Madras (Online)**                                                Mar 2024 – Dec 2028
*BS Data Science and Applications* **(CGPA: 7.75)**

## PROJECTS

**Prompt-to-Web** | FastAPI, Google GenAI, PyGitHub, GitHub API, GitHub Pages
- Built an AI-driven system that converts natural-language prompts into fully functional web applications.
- Automated GitHub repository creation, commit management, and deployment to GitHub Pages.
- Designed resilient workflows using retry mechanisms for AI and GitHub API failures.

**Kargo Backend** | Kubernetes, Docker, OAuth2, MongoDB, GitHub API
- Backend service for Kargo — a platform enabling containerized app deployments with AI-powered setup and Kubernetes-native scaling.
- Implemented multi-provider authentication (Google OAuth, GitHub OAuth, local login) with secure session management.
- Integrated GitHub APIs for repository linking, deployment automation, and Docker-based build workflows.
- Contributed backend modules for multi-tenant resource allocation, monitoring endpoints, and deployment orchestration.

## TECHNICAL SKILLS

**Languages:** Python, Go, JavaScript (ES6), C, C++, SQL, NoSQL
**Backend & APIs:** FastAPI, Flask, Express.js, Gin (Go), REST APIs, OAuth2, Webhooks
**Databases:** MySQL, PostgreSQL, MongoDB, SQLite, Redis (Caching, Queues, Messaging)
**Infrastructure & DevOps:** Docker, Docker Compose, Kubernetes (Basics), GitHub Actions (CI/CD), Nginx, Linux, SSH
**Cloud & Deployment:** Containerized deployments, GitHub Pages, HuggingFace Spaces, Render
**AI & Automation:** Google GenAI, Pydantic AI, Prompt Engineering, LLM Workflows, API Automation
**Distributed Systems:** Asynchronous tasks, Celery, Task queues, Background workers
**Developer Tools:** VS Code, Postman, Git, Browser DevTools, Make, cURL

## CERTIFICATIONS

**Introduction to Cybersecurity** – Cisco Networking Academy                    Jan 2026
- Completed foundational cybersecurity training covering threat landscape, security principles, and defense strategies.

**Foundations of Log Analysis for Cyber Defense** – Red Team Leaders           Jan 2026
- Trained in log analysis techniques for threat detection, correlation, and defensive security operations.