Adarsh AG

Software Developer | Python Developer | Cybersecurity Enthusiast

+91 9884947054 | adarshagadarsh@gmail.com | linkedin.com/in/adarshagofficial

SUMMARY

Motivated Computer Science student with strong skills in Python development, backend systems, and problem solving. Experienced in building scalable applications, automation tools, and real-world projects. Passionate about writing efficient, clean, and maintainable code while developing impactful software solutions.

EXPERIENCE

Turing IQ Jan 2026 – Jul 2026

Python Developer Intern

- *6 Months Internship* | *Stipend: Rs. 8,000/month*
- Developed Python-based applications focusing on performance and scalability.
- Collaborated on debugging, testing, and improving system reliability.

IIIT Kottayam May 2026 – July 2026

Research Intern

- *Deep Learning Research Internship*
- Researched lightweight Vision Transformer (ViT) architectures for efficient deep learning deployment.
- Explored model compression and optimization techniques to reduce computational overhead while preserving accuracy.
- Studied and benchmarked ViT variants against standard datasets to evaluate performance trade-offs.

Azefox Jan 2026 – Apr 2026

Security Engineer Intern

- *3 Months Internship*
- Worked on system analysis and secure coding practices.
- Identified vulnerabilities and improved application-level security.

Extion Infotech Jul 2023 – Oct 2023

Cybersecurity Intern

- Performed system analysis and testing to identify issues and improvements.
- Documented findings and contributed to system optimization.

Freelance 2026 – Present

Freelance Web Developer

- Built 3+ websites for clients.

PROJECTS

Dynamic Power Management System

- Built a system to optimize power usage and improve performance efficiency.
- Designed monitoring logic for adaptive system behavior.

Python-Based Vulnerability Scanner

- Developed a network scanning tool using Python and Nmap.
- Automated detection of system weaknesses and generated reports.

Web Application Security Tester

- Built a testing tool to identify common web vulnerabilities (SQLi, XSS).
- Simulated real-world scenarios to evaluate application robustness.

Deep Learning-Based Network Intrusion Detection System

- Designed and trained an LSTM-based deep learning model to classify and detect anomalous network traffic patterns in real time.
- Preprocessed and feature-engineered packet-level data using Python and Scikit-learn; achieved over 95% detection accuracy on benchmark datasets (KDD Cup 99, CICIDS2017).
- Implemented the model pipeline using TensorFlow/Keras and integrated it with a live packet capture module via Scapy.

Password Strength Analyzer

- Designed a tool to evaluate password security using rule-based logic.
- Improved validation mechanisms for secure authentication.

Deep Learning-Based Phishing URL Detection

- Built a phishing detection system using a CNN + BiLSTM hybrid architecture to classify malicious URLs.
- Trained on 100,000+ labelled URLs, achieving 97% precision and 96% recall.
- Deployed as a lightweight Python REST API using Flask for real-time classification.

EDUCATION

Velammal Engineering College 2023 – 2027
B.E. Computer Science (Cybersecurity)
Higher Secondary Education *2023*

SKILLS

Programming : Python, JavaScript
Web Development : HTML, CSS, Basic Frontend Development
Deep Learning : TensorFlow, Keras, LSTM, CNN, BiLSTM, Vision Transformers (ViT), Scikit-learn
Core Concepts : Data Structures, Algorithms, Problem Solving
Tools : Git, Linux, Nmap, Wireshark, Scapy
Concepts : Backend Development, System Design Basics, Debugging

LEADERSHIP & ACTIVITIES

Cybersecurity Club
Founder & Lead

- Built and managed a technical community focused on learning and collaboration.
- Organized workshops and mentoring sessions.

CTF Team Leader

- Led a team participating in technical competitions and challenges.
- Coordinated problem-solving strategies and team collaboration.

ACHIEVEMENTS

- Winner of Ideathon for innovative technical project development.
- Winner of Hackathon for building impactful solutions.
- Secured top positions in technical paper presentation competitions.

LANGUAGES

English (Advanced), Tamil (Native), Telugu (Intermediate), French (Intermediate)