

Gouri Nandana A

+91 - 9207141944 | nandanagouri47@gmail.com | linkedin.com/in/gouri-nandana | github.com/gouriiinandana

EDUCATION

Vellore Institute of Technology

BTech Cse. Spec in Cybersecurity and Digital Forensics - (CGPA: 8.09/10)

Bhopal, Madhya Pradesh

September 2021 - October 2025

The Choice School

Class XII - 90%

Kochi, Kerala

April 2020 - June 2021

The Choice School

Class X - 86%

Kochi, Kerala

April 2018 - June 2019

EXPERIENCE

Security Engineer

May 2025 – Present

Offline

GKS INFOTECH PRIVATE LIMITED - Kochi, Kerala

- Monitoring of network traffic, security alerts, and AWS Cloud environments; performing vulnerability assessments on Web and Mobile Apps and data backup auditing to ensure system integrity.
- Perform Static Application Security Testing (SAST) and Software Composition Analysis (SCA) to detect insecure code practices, vulnerable dependencies, and third-party risks.
- Documenting of security incidents, system anomalies, and mitigation steps, applying best practices to strengthen security posture while maintaining strict confidentiality.

Project Coordinator Intern

Jan 2025 – April 2025

Offline

JIIATK Inc - Kochi, Kerala

- Coordinated cross-functional teams to develop and enhance the eBay Management System (eMS), enabling Japanese sellers to scrape product listings from domestic e-commerce platforms and list them on eBay.
- Streamlined task management and facilitated collaboration between Japanese and Indian teams, ensuring timely delivery of features like inventory automation, eBay integration, and subscription-based access.
- Monitored project progress, resolved discrepancies, and maintained comprehensive documentation to support sustainable development and international market expansion.

Cybersecurity Intern

Nov 2024 – Dec 2024

Offline

Cyber Cell Police Station - Kochi, Kerala

- Architected a secure cloud-based file storage solution using hybrid cryptographic techniques to maintain data confidentiality and integrity.
- Integrated a dynamic key rotation mechanism and multi-layered encryption strategy to strengthen protection against unauthorized access.
- Executed a secure file reconstruction workflow, enabling safe, authenticated retrieval of encrypted data segments.

Data Science and Analytics Intern

Sep 2024 – Oct 2024

Online

Innovate Intern - Chennai, Tamil Nadu

- Developed "EmoSpeak," a deep-learning system for speech emotion recognition, applying CNNs and RNNs to identify emotions like happiness, sadness, anger, and fear.
- Optimized data preprocessing and extracted acoustic features to boost model accuracy and efficiency.
- Trained and validated the model using RAVDESS and SAVEE datasets, ensuring robust emotion classification.

PROJECTS

OpenWRT Integrated Raspberry Pi based Router | Raspberry Pi, OpenWRT, Python Aug 2024 – April 2025

- Designed and deployed a custom router using OpenWRT on Raspberry Pi to enhance network performance and control.
- Implemented advanced networking features such as VPN, firewall rules to improve security and traffic control.
- Tested and validated network stability, ensuring seamless integration with multiple devices in a local environment.

Swift Help (Hospital Management System) | React, ExpressJS, NodeJS, Mongo DB

Sep 2023 – May 2024

- Built a scalable blood bank platform to streamline donor-recipient interactions and improve emergency response efficiency.
- Integrated real-time inventory monitoring to alert healthcare facilities of low stock levels and automate replenishment processes.
- Reduced wait times for life-saving blood donations by ensuring faster support for critical needs.

TECHNICAL SKILLS

Cybersecurity: Vulnerability Assessment & Penetration Testing (VAPT)

Mobile Application Testing: Static & Dynamic Analysis (apktool, MobSF, JADX)

Web Application Testing: OWASP Top 10, Burp Suite, OWASP ZAP

Network/IP Testing: Nmap, Nikto, Kali Linux Tools

Cybersecurity & Cloud Security: Log Analysis (CloudTrail, CloudWatch), Identity & Access Management (IAM), Security Hardening & Risk Mitigation, Backup Auditing & Security Compliance Checks

Operating System and Environments: Linux (Ubuntu, Kali), Windows, AWS EC2, S3, CloudWatch, CloudTrail

Developer Tools: VS Code, Github, Overleaf,

SOFT SKILLS

Soft Skills: Leadership, Active Listening, Teamwork and Collaboration, Problem-Solving Abilities, Creative Thinking, Strong Communication.

PROFESSIONAL CERTIFICATIONS

Certifications: CEH (ECCouncil), AWS Certified Cloud Practitioner (AWS), Ethical Hacker (Cisco), Blockchain and its Application (NPTEL), Cybersecurity Fundamentals (IBM), AWS Solutions Architect - Associate (Ethnus).

ADDITIONAL

Responsibilties: Malayalam Club - Core Committee member, VIT Bhopal, SEDS NEBULA - Core Member, VIT Bhopal

Languages: English, Malayalam, Hindi