SOUHRID SURESH

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PROFILE SUMMARY

Motivated MTech student specializing in Cyber Forensics and Information Security with hands-on experience in network security, digital forensics, and cyber attack simulation. Skilled with tools such as FTK Imager, EnCase, Wireshark, Aircrack-ng, Nmap, and Kali Linux for investigation and vulnerability assessment. Knowledgeable in incident response, secure coding, log analysis, and Python-based automation. Strong analytical mindset with attention to detail and a commitment to continuous learning in the cybersecurity field.

EDUCATION

ER & DCI Institute of Technology, Thiruvananthapuram **2024–2026**
M.Tech in Computer Science and Engineering (Cyber Forensics and Information Security)

College of Engineering Chengannur, Kerala **2020–2024**
Bachelor of Technology in Computer Science and Engineering *CGPA: 7.02*

Excel Public School, Mahe **2017–2019**
XII *PERCENTAGE: 92.4%*

Kendriya Vidyalaya Mahe **2016–2017**
X (CBSE) *PERCENTAGE: 94%*

SKILLS

Programming Languages: C, Python, Java, SQL
Cybersecurity Tools: Wireshark, NMap, Metasploit, SQLMap, Aircrack-ng, BIND9, Kali Linux, Ubuntu
Development Skills: Python, Java, SQL, HTML, CSS, JavaScript
Other Skills: REST APIs, Git, Linux, MinIO (S3 Storage)
Soft Skills: Leadership, Team Work, Problem Solving, Critical Thinking

INTERNSHIP EXPERIENCE

Centre of Development of Advanced Computing, Thiruvananthapuram *2025*
Cyber Security Intern – Worked on developing a Convolutional Neural Network model for detecting audio spoofing attacks. Implemented MFCC extraction, spectrogram processing, dataset preparation, and model evaluation.

Cognifyz Technologies, Maharastra *2024*
Python Development Intern - Completed a Python Development Internship gaining hands-on experience with Python-based development tasks and strengthening my analytical, coordination, and communication skills.

PROJECTS

1. Secure DNA Storage Platform (Python, FastAPI, MinIO, AES-256)
Designed a secure DNA file storage system using encrypted FASTQ/FASTA uploads with AES-256. Implemented FastAPI backend, MinIO S3 storage, metadata tracking, and STR extraction flow. Supports AI-assisted retrieval for forensic workflows.

2. Secure Diabetes Prediction using Encrypted Data (Python, TenSEAL, Streamlit)
Built an encrypted ML pipeline where user data is encrypted, processed, predicted, and decrypted securely. Implemented a full "Encrypt → Predict → Decrypt" workflow using Streamlit UI and TenSEAL HE libraries.

3. TREKZEN (HTML, CSS, JS, NodeJs)

Trekzen aims to provide a solution for tourists to plan tours and get optimized routes based on Lin-Kernighan (Optimization) and Nearest Neighbour (Approximation) algorithms. Built using HTML, CSS, JavaScript, and Node.js.

4. Handwritten Digit Recognition using CNN (Python, TensorFlow/Keras)
Developed an AI model to classify handwritten digits using a Convolutional Neural Network (CNN). Trained on the MNIST dataset.

5. Cybersecurity Practical Work (Academic)
Performed DNS flood attack simulation using BIND9 on Ubuntu and Kali Linux. Demonstrated SQL Injection attacks using SQLMap and analyzed server response patterns.

CERTIFICATIONS

- **Databases and SQL for Data Science with Python** – IBM (Coursera), 2024 Verified Coursera Certificate. Learned SQL, database operations, Python-based querying, and data handling.
- **Database Management System (DBMS)** – NPTEL (IIT Kharagpur), Jul–Sep 2025 Elite Certification with a consolidated score of 63%. Covered relational models, SQL, indexing, transactions, and ER design.

ACCOMPLISHMENTS

- E-sports Coordinator, SGC CEC.
- Volunteer at IEEE and IEDC organizations.
- Event Coordinator at Tharang, CEC Tech Fest 2023.