

# M GOURI SANKAR

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## EDUCATION

### COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor of Technology in Information Technology

Cumulative GPA: 9.53/10.0

Kochi, Kerala

Jul 2020 - Jul 2024

### CENTRAL BOARD OF SECONDARY EDUCATION

Higher Secondary School (Class 12)

Percentage: 97.4

May 2019 - Jun 2020

## WORK EXPERIENCE

### INTERNATIONAL CENTRE FOR FREE AND OPEN SOURCE SOLUTIONS

Thiruvananthapuram, Kerala

Cybersecurity Intern

Sep 2024 – Present

- Designed and implemented custom algorithms for detecting anomalies in IoT network traffic, improving threat detection accuracy by 50%.
- Performed Vulnerability Assessments and patched security issues on 10+ LoRaWAN Gateways.
- Performed Security Audits and patched vulnerabilities across 20+ web applications and their servers to strengthen security.
- Created detailed security reports and documentation for stakeholders, outlining vulnerabilities, applied patches, and recommendations for future improvements.

## PROJECTS

### LoRaWAN SECURITY INCIDENT DETECTION SYSTEM

- Designed and implemented an IoT Network Security Monitoring Suite to detect over 5 common threat vectors using tailored algorithms.
- Utilized a custom backend to log events, make periodic Chirpstack API calls and maintain a SQL database of events and resources.
- Integrated Prometheus for monitoring key metrics and used custom Grafana dashboards for visualizing metrics and generating alerts.
- Deployed all components as containerized services using Docker for seamless integration and scalability.

### AQUAMETRICS - IoT BASED WATER QUALITY MONITORING SYSTEM [ [Live](#) | [Github-Frontend](#) | [Github-Backend](#) ]

- Designed and implemented an IoT system to collect, store and analyze 5 water quality parameters.
- Managed the collected data with a Flask-based backend hosted on an AWS EC2 instance, stored in InfluxDB Cloud, analyzed using custom ML models, and visualized through a React Native dashboard deployed on Vercel.
- Done in collaboration with Cochin Smart Mission Limited and CUSAT

## CERTIFICATIONS AND TRAINING

### CERTIFIED IN CYBERSECURITY



By ISC2

[View Credential](#)

### GOOGLE CYBERSECURITY PROFESSIONAL CERTIFICATION



By Coursera

[View Credential](#)

### SCIENTIFIC COMPUTING WITH PYTHON

By FreeCodeCamp

[View Credential](#)

## TECHNICAL SKILLS

**Languages:** Python, C/C++, SQL, Javascript, HTML/CSS

**Frameworks and Libraries:** Flask, Django, React, Bootstrap, Pandas

**Tools:** Linux, Docker, Git, VS Code, AWS, Burpsuite, OWASP ZAP, Wireshark, Chirpstack, InfluxDB, Prometheus, Grafana

**Other:** Agile/Scrum, Network Communications, VAPT, IoT, RESTful APIs, Data Analysis