Shivaraman T

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Profile Summary

Third-year B.Tech (ECE — AI & Cybernetics) student at VIT Bhopal (CGPA: 8.70/10) with hands-on experience building IoT systems and data-driven UIs. Created real-time monitoring dashboards and human-centric interfaces for engineering projects; comfortable with product thinking, collaboration, and quality-focused delivery. Strong foundations in Data Structures & Algorithms and signal processing.

Education

VIT Bhopal University   *Sept 2023 – May 2027 (Present)*
B.Tech in Electronics and Communication Engineering (Artificial Intelligence & Cybernetics)   CGPA: 8.70/10
Key coursework: Data Structures & Algorithms, Programming in Java, Analog Electronics, Electromagnetics & Transmission Lines, Signals & Systems, Applied Linear Algebra

Skills

Web & UI	Qlik Sense (interactive dashboards), UI layouting, KPI visualization, basic REST/JSON data flows
Programming	C++, Java, Python
Tools & Platforms	MATLAB, Simulink, Proteus; AWS (foundational), Arduino, IoT sensors
Signal Processing	Filter design, spectral & time–frequency analysis

Experience

Aqualis Inspection Services, Dubai — Intern, Cathodic Protection Systems   *May 28 – Jun 10, 2025 | Dubai, UAE*

- Performed system inspection, monitoring and field implementation for Galvanic CP systems; collaborated with senior engineers on test plans and reporting.
- Contributed to setup, installation and verification activities using industry tools; emphasized safety, documentation and measurable outcomes.

Pinnacle Labs Pvt Ltd — Cloud Computing Intern   *May 12 – Jun 12, 2025 | Remote (India)*

- Practiced cloud infrastructure concepts (virtual networking, compute services) in simulated environments; documented configs and outcomes.
- Focused on scalable design principles and reliability baselining aligned with product requirements.

Qlik — Virtual Internship in Business Analytics (Certificate ID: VIP-BA-2024-147)   *Apr 2024 – Jun 2024*

- Built interactive dashboards for real-time supply chain insights using the DataCo SMART dataset.
- Applied data cleaning and implemented predictive visualizations; emphasized usability and KPI-driven storytelling.

Selected Projects

Automatic Aerator System (AquaDox)   *GitHub*

- Engineered an IoT-based aeration solution for aquaculture with real-time monitoring.
- Integrated Arduino, DO sensors and a web dashboard for remote operations; prioritized intuitive UI for quick status checks and control.

Data-Driven Supply Chain Dashboard   *GitHub*

- Designed Qlik dashboards with KPI metrics, filters and drill-downs to support decision-making.
- Enhanced inventory forecasting through predictive visual cues; focused on clarity, responsiveness and user flow.

Publication

Smart Helmet Systems: IoT-Enhanced Safety and Integrated Display for Two-Wheelers   *Feb–Mar 2025*
6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025), NIT Silchar.
Co-author; integrated heads-up IoT display with safety features; proposed real-time navigation and rider alerts.

Hackathon

Bharatiya Antariksh Hackathon 2024 — ISRO & Hack2Skill   *2024*
Certificate ID: 2024H2S07ISRO-P005573; proposed satellite communication optimization in a team-based challenge.

Certifications (selected)

AWS Cloud Services: Getting Started (Storage, Compute, Networking) | MATLAB: Fundamentals, Signal & Image Processing, Filter Design | Applied Machine Learning in Python | Raspberry Pi for Beginners