






# Sarveshver S

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## ABOUT

Passionate and results-driven Embedded Engineer & IoT Developer with 1.8 years of experience in embedded systems, IoT solutions, and full-stack development. Skilled in ESP32, STM32, Python (Django), and smart automation. Adept at developing IoT-based smart city solutions, optimizing embedded code, and creating scalable applications. Seeking global opportunities in embedded systems, smart city solutions, and IoT development.

## TECH STACK

- Programming Languages: Python,C++
- Frameworks: Django | REST API | Plotly
- Databases: MySQL
- Embedded Systems: Microcontrollers (ESP32, STM32), IoT, Embedded C
- Tools: Git
- Others: HTML, CSS, UI/UX, MQTT,Machine Learning

## PROFESSIONAL EXPERIENCE

**Kolozen Tech Works (OPC) Private Limited**  
**CTO**

**Oct 2024 - Apr 2025**

- Led the development of Smart Duck, an innovative IoT project that fetches and processes real-time environmental data using multiple sensors, which was featured on television news channels.
- Conducting R&D on home automation and drone technology, focusing on advanced sensor integration and automation.
- Designed and developed REST APIs to enable seamless connectivity between embedded systems and cloud platforms.

## PERSONAL PROJECTS

**July 2020 - Jan 2022**

**Aquasence (IoT & Embedded Systems - C++)**

- Designed and developed AquaSence, a smart water quality monitoring system leveraging IoT sensors for real-time data acquisition. Integrated cloud connectivity for remote access.
- Implemented analytics to track key parameters like pH, turbidity, temperature, and dissolved oxygen. Enabled early detection of water contamination through automated alerts and threshold-based triggers

**Smart Hub (IoT & Embedded Systems - C++)**

- Engineered a home automation system using ESP32 to enable seamless control of electronic devices.
- Implemented MQTT-based real-time communication and mobile app integration for remote operation

## EDUCATION | CERTIFICATIONS

**Bachelor of Computer Science - 2016 | 2019** 58%  
Tagore College Of Arts And Science

**M.sc Information Technology - 2020 | 2021** 75%  
University Of Madras

**Django Full Stack Development**

Q - spiders

## MEDIA FEATURES | RECOGNITION 2024

Smart Duck featured on Puthiya Thalaimurai TV for innovation in real-time environmental IoT monitoring.

### Languages

Tamil | English