

# SURYANATH TRIPATHY

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 [Portfolio](#)

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## SUMMARY

Software Developer with 2 years of experience in building reliable web applications using Python, Flask, and Django to optimize backend operations. Improved user experience through intuitive UI design and efficient frontend development. Streamlined deployment processes with Docker and automated CI/CD pipelines using GitHub Actions. Utilized AWS to deliver scalable and dependable cloud-based solutions.

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## TECHNICAL SKILLS

- **Programming & Core Concepts:** Python, Data Structures & Algorithms, Object-Oriented Programming (OOP), System Design, SQL
- **Web Development:** Flask, Django, HTML5, CSS3, Bootstrap(Framework)
- **Databases:** PostgreSQL, MongoDB
- **DevOps & Tools:** Docker, CI/CD with GitHub Actions
- **Cloud & Integration:** AWS, SAP BTP Integration Suite

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## WORK EXPERIENCE

### TATA CONSULTANCY SERVICES

(Systems Engineer)

Oct 2023 - Present

- Built and maintained backend systems using Python, Flask, and Django for enterprise web applications, helping reduce API response time by 35% and handle over 100,000 user transactions monthly.
- Used core programming concepts like data structures and OOP to improve code structure, boost reusability, and significantly speed up feature delivery timelines.
- Contributed to front-end integration with responsive UI components, which led to increase in user satisfaction index by 40% and a noticeable drop of 20% in UI-related bugs.
- Containerized applications using Docker and implemented automated CI/CD pipelines with GitHub Actions, making deployments more reliable and increasing the frequency of releases.
- Deployed scalable cloud solutions using AWS services like EC2 and Lambda, and built integration flows on SAP BTP Integration Suite to streamline system communication

### EUREKA SCIENTECH RESEARCH FOUNDATION

(Internship)

Aug 2022 - Jan 2023

- Built a Python-based master-client architecture using Raspberry Pi and socket programming to trigger and synchronize 16 unique voice alerts over LAN based on GPIO input signals.
- Enabled real-time communication between master and multiple clients, with features like individual muting and global shutdown via a REST command.
- Designed for deployment in industrial environments to automate safety announcements, reducing manual alerting and improving emergency response time by up to 40%.
- Enhanced operational safety and compliance by delivering consistent, automated audio warnings across the facility using low-cost, scalable RPi hardware.

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## EDUCATION

### TECHNO MAIN SALLAKE

Aug 2019 - Jun 2023

Electronics & Instrumentation Engineering (9.27 CGPA)

### KENDRIYA VIDYALAYA COMMAND HOSPITAL 2019

All India Senior School Certificate Examination (79.2%)