

PURVESH DAVE

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Full Stack / Python Developer

Portfolio: <https://purveshdave.in>

PROFESSIONAL SUMMARY

Backend-focused Full Stack Developer with ~4 years of experience designing and delivering real-time industrial monitoring systems using Python, Django, and Flask. Strong expertise in protocol-driven data acquisition, REST APIs, hardware integration, and interactive dashboards. Proven record of building production-grade solutions for mining and power-distribution enterprises with high reliability and performance.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS

Backend: Django, Flask, REST APIs

Frontend: HTML5, CSS3, JavaScript, Bootstrap, AJAX

Databases: PostgreSQL, MySQL

Protocols & Domains: Hardware Communication, IOT, Serial, CAN, IEC 60870-5-104, Real-time Monitoring

Tools: Git, GitHub

PROFESSIONAL EXPERIENCE

Python Developer | Amnex Infotechnologies Pvt. Ltd., Ahmedabad (Feb 2022 – Present)

- Led backend and full-stack development for large-scale industrial monitoring systems in mining and power-distribution domains.
- Designed Python services for real-time data acquisition, protocol handling, storage, and visualization.
- Built REST APIs, background pipelines, and fault-tolerant local storage for mission-critical deployments.
- Worked directly with client engineering teams during on-site POC and production rollouts.
- Owned full lifecycle delivery: requirement analysis, architecture, development, testing, deployment, and production support.

Student Intern | Amkay Software Solution (Aug 2021 – Feb 2022)

- Developed small-scale Django applications and assisted in backend logic and UI integration.
- Participated in testing, debugging, deployment, and technical documentation.

PROJECTS

Fleet Management System – NMDC

- Designed and developed an end-to-end fleet management platform integrating multiple hardware devices using heterogeneous protocols.
- Implemented telemetry ingestion, validation, normalization, and fault-tolerant local storage with synchronization during network outages.
- Built secure REST APIs and two-way communication with the Central Command Center.
- Engineered SOS detection, real-time vehicle health monitoring, and alerting pipelines.
- Developed interactive dashboards for live fleet status, telemetry, and alerts, resulting in approximately **40% increase in operational productivity** and **~60% reduction in vehicle collision incidents for the client**.

Local Data Monitoring System (LDMS) – MSEDCL

- Developed production-ready monitoring platforms using Django and Flask both with IEC 60870-5-104 integration.
- Built high-frequency data pipelines (~1-second accuracy).
- Performed on-site POC deployments with multiple RTU vendors ensuring protocol compatibility and system stability.
- Implemented dynamic Single Line Diagrams, live dashboards, historical trends, and energy flow aggregation, resulting in **~98% reduction in development & onsite configuration time** and **~85% cost savings for the company**.

EDUCATION

Bachelor of Engineering (B.E.) in Information Technology
SAL College of Engineering, GTU
CGPA: 7.6 / 10 | Year of Graduation: 2022

LANGUAGES

Gujarati (Native), Hindi (Fluent), English (Professional Working Proficiency)

SYSTEM DESIGN & ENGINEERING HIGHLIGHTS

- Designed modular backend architecture separating data ingestion, processing, storage, and visualization layers.
- Implemented buffering, retry, and synchronization mechanisms to handle unstable field network conditions.
- Built scalable real-time pipelines with ~1-second refresh accuracy for live monitoring dashboards.