

# Buddhabhushan Waghmare

Full-Stack Developer — React · Next.js · Node.js · Golang · FastAPI · Docker · MQTT/WebSockets  
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## Professional Summary

**Full-Stack Developer** with 1+ year delivering **production-grade, real-time systems** across IoT, industrial, and enterprise domains. Independently designed a BMS telemetry platform handling **60,000+ MQTT data streams** and shipped a live MERN web platform ([consulta.in](#)). Skilled in **microservices architecture, CI/CD, REST API design, and cloud-native deployments** (Docker, Nginx, Linux). Open to full-stack, backend, and IoT roles — **remote or on-site, globally**. Available for **US/EU timezone overlap**.

## Technical Skills

Frontend	React, Next.js, Angular, Three.js, Vite, Tailwind CSS, Framer Motion, Redux, Context API, HTML5, CSS3
Backend	Node.js, Express.js, FastAPI, Golang, PHP, REST APIs, GraphQL, JWT, bcrypt, Cron Jobs
Databases	MongoDB, PostgreSQL, MySQL, InfluxDB, MinIO (S3-compatible)
DevOps	Docker, Nginx, Apache, Linux, CI/CD (GitHub Actions), AWS S3, Render, Git
Realtime/IoT	MQTT, WebSockets, Snap7 (Siemens PLC), Deye Cloud API, Raspberry Pi, microservices
Languages	JavaScript, TypeScript, Python, Golang, PHP, SQL, Java, C++
ML / Data	Scikit-learn, Pandas, NumPy, NLTK, NLP

## Experience

**Vision Mechatronics Pvt. Ltd.** — Software Engineer, R&D Oct 2025 — Jan 2026

- Independently architected a **dynamic BMS monitoring platform** (MQTT + WebSockets) — real-time cell-level telemetry across distributed battery packs and multi-site deployments, running 24/7 in production.
- Proposed and built an auto-discovery engine scaling to 60,000+ MQTT topics** (voltage, SOC, temp) — eliminated all hard-coded mappings, **cutting configuration effort by ~80%**.
- Node.js | Express.js | React | MQTT | WebSockets | Docker | Nginx | Linux

**Consulta Technologies Pvt. Ltd., Navi Mumbai** — Software Engineer Jun 2025 — Sep 2025

- Shipped [consulta.in](#) — React + Node.js/Express production website, **live, SEO-optimized, fully responsive**, delivered on schedule.
- Built a **full-stack ERP (TER) system** end-to-end: JWT role-based auth, multi-step approval workflows, MinIO document storage, and automated PDF generation.
- Designed Dockerized **microservices** behind Nginx reverse proxy, improving deployment consistency and cutting infrastructure overhead.
- React | Node.js | Express | MongoDB | FastAPI | Docker | Nginx | MinIO | JWT

**Ketsol Pvt. Ltd., Pune** — Software Engineer Dec 2024 — Apr 2025

- Built core data-ingestion modules for an **industrial KMS platform** — Siemens PLC data via Snap7, persisting high-frequency time-series readings in InfluxDB.
- Identified and resolved a critical pipeline bottleneck** — redesigned sampling and interpolation logic, significantly improving real-time dashboard accuracy and trend reliability.
- Python | FastAPI | Snap7 | InfluxDB | REST APIs | Linux

## Key Projects

**BMS Dashboard** — *Real-Time Battery Telemetry Platform* [Live](#) ↗ [GitHub](#) ↗ 2025

MQTT | WebSockets | React | Node.js | Docker | Nginx | Linux

- Auto-discovers and maps 60,000+ MQTT data streams** across multi-vendor battery packs — zero manual config, containerized microservice on Linux with real-time alerts and multi-site analytics.

**Deye Battery Cloud Data Logger** — *Automated Historical Telemetry Pipeline* 2025

Node.js | Express.js | Deye Cloud API | Cron Jobs | MySQL | Custom API Abstraction | Linux

- Scheduled cron pipeline pulls 24-hour Deye battery telemetry daily; **custom API abstraction layer** overcomes native Deye API limitations — normalizing payloads into structured MySQL records for trend analysis.

**Consulta Corporate Web Platform** — *Full-Stack Production Website* [Live](#) ↗ [GitHub](#) ↗ 2025

React.js | Express.js | MongoDB | Tailwind CSS | Framer Motion | Skipper UI | Apache | Docker

- Fully dynamic, responsive corporate site live at [consulta.in](#) — Apache-served on Linux, MongoDB-backed content, Framer Motion animations, and polished Skipper UI components.

**Victron-Deye Integration Platform** — *Embedded Battery Data Bridge* [Live](#) ↗ 2025

PHP | Express.js | REST APIs | Raspberry Pi | Time-series | Unix timestamps

- PHP REST APIs on Raspberry Pi bridge live Deye battery metrics (voltage, SOC, temp) into Victron platforms — **unified real-time + historical visibility** where no native integration existed; Unix-timestamped storage for cross-cycle diagnostics.

**Tour Expense Report (TER)** — *Enterprise ERP & Workflow Automation* 2025

FastAPI | React | JWT | MongoDB | MinIO | Docker | CI/CD (GitHub Actions)

- Full-stack ERP replacing paper workflows: JWT role-based auth, multi-step approvals, MinIO file storage, auto PDF generation — **eliminated all manual processing** org-wide; deployed via Docker + CI/CD.

## Education

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**B.E. Computer Engineering** — **University of Mumbai**

2021 — 2025

**New Horizon Institute of Technology & Management, Thane**

CGPA: 7.0 / 10

*Major Project:* **Profanity Filter System (ML/NLP)** — 95%+ **accuracy** using Python, Scikit-learn & NLTK on real-world datasets.

*Coursework:* Data Structures & Algorithms, DBMS, Web Development, Cloud Computing, Machine Learning, NLP

## Certifications & Recognition

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- **SmartSights Industrial Mobile Platform** — IIoT Domain
- **Cloud Computing & Full-Stack Web Dev** — IBM SkillsBuild
- **JavaScript Essentials** — Meta
- **Best Project Award** — “BRIDGE MANNIA” (2022) & “PIER ENDURE” (2023), VJTI Mumbai — Structural simulation & high-endurance infrastructure prototypes

## Languages

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**English:** Professional working proficiency

- **Hindi:** Native
- **Japanese:** Beginner (learning)