

Shubham Shinde

Digital Transformation · Ports & Maritime

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Open to port and maritime digital advisory roles. Mumbai, Pune or remote.

SUMMARY

3+ years taking digital systems for port operations at JSW Infrastructure from site discovery to multi-site rollout: a port ERP with SAP and GST e-invoicing, live multi-port dashboards and AI on operations data, now running across seven sites. Pursuing a PGPM (MBA) at IIM Mumbai to add commercial depth to solution design.

EXPERIENCE

Assistant Manager, Digital Solutions Engineer · JSW Infrastructure, Navi Mumbai Aug 2024 – Present

- PortBird port ERP:** ran the build-versus-buy evaluation and replaced a licensed port system with an in-house port ERP covering vessel calls, barge and MBC operations, berth planning, services and invoicing. Live at JSW Dharamtar Port (DPPL), then replicated to the JSW JNPA liquid terminal; no licence or annual maintenance fees at either site.
- SAP and GST integration:** invoices raised in PortBird are e-invoiced on the GST portal and posted to SAP automatically, with Microsoft Entra ID sign-in and role-based access.
- Reporting automation:** replaced Excel-based daily progress and MIS reports with Python pipelines across PortBird, iPortman and SCMS. 90+ reports automated (50+ at DPPL, 40+ at JNPA), removing about 7,500 hours of manual reporting a year.
- Multi-site platforms:** built and rolled out the Digital Logbook (EAV-based configurable forms, approval workflows, access control; 30+ processes digitized) and a Headcount Dashboard (punch-in integration, overstay alerts) to seven sites: DPPL, SWPL, JPL, JNPA, Keni, MCPL and MCTPL.
- Centralized Dashboard:** one live map of every JSW Infrastructure port and terminal, plus operations dashboards for JSW Jaigarh Port and JSW South West Port.
- AI on operations data:** an LLM assistant with retrieval and text-to-SQL that answers cargo, equipment and delay questions and shows the SQL behind every number; a Monte Carlo throughput forecast against target with P10 to P90 ranges, and an arrival planner.
- Data platform:** designed the API that lands PostgreSQL data in Azure Data Lake for the bronze layer of a Databricks medallion lakehouse, including schemas and data quality checks.
- OT and energy:** energy monitoring on Moxa gateways with Kafka and Spark into a landing zone and PostgreSQL (MCTPL), and on Siemens S7 PLCs read directly (JPL).
- Led discovery and requirements workshops with operations, finance and HSE stakeholders across three port sites, and turned them into solution designs and phased rollout plans.

Graduate Engineer Trainee · JSW Infrastructure, Dharamtar Port, Raigad Aug 2023 – Aug 2024

- Weighbridge management system:** captures truck weights directly from the weighbridge over serial (PySerial) for 500–800 truck transactions a month, with validated receipts and live dashboards at DPPL and SWPL.
- Vehicle gatepass system:** replaced paper gate passes with online approvals and QR stickers, plus a Flutter app for security to verify passes at the gate.
- Vehicle speed detection:** YOLO vehicle detection and ANPR on ONNX for speed checks on port roads, with a violations dashboard and reports.
- Automated HSE report extraction from external portals with Selenium, saving about 365 hours a year.
- Selected for the GET Excellence Program at MDI Gurgaon (2024), a leadership and business management program.

SKILLS

Advisory: process mapping and discovery, business cases and build versus buy, vendor and solution evaluation, phased multi-site rollout, adoption and change management, data governance and RBAC.	Technology: SAP and GST e-invoice integration, PostgreSQL, Azure Data Lake, Databricks, Kafka, Spark, Python, SQL, Django, Flask, Flutter, LLMs, RAG, text-to-SQL, MCP, YOLO, ONNX, Siemens S7, Moxa.
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EDUCATION

PGPM (MBA) · IIM Mumbai Jul 2026 – Jul 2028 (expected)

- Capstone: agentic AI for supply-chain decision support, using a RAG pipeline to ground multi-step agent reasoning in enterprise data.

B.E., Computer Engineering · Ramrao Adik Institute of Technology, Navi Mumbai · CGPA 8.1 2019 – 2023

- Grand Finalist, Smart India Hackathon 2023.

CERTIFICATIONS

Anthropic: Model Context Protocol, Claude Code in Action, Building with the Claude API (2025) · Hugging Face: AI Agents (2025)