

Darshit Patoliya

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PROFESSIONAL SUMMARY

Engineer with 11 years shipping production systems, now focused on deploying agentic AI against real operational problems. At Morgan Stanley, worked directly with operations stakeholders and forward-deployed engineers to turn a 40-person manual workflow into an autonomous multi-agent platform — 82% cost savings, 96% faster resolution. Comfortable owning ambiguous problems end to end — discovery, rapid prototyping, production hardening, and stakeholder communication.

SKILLS

Languages: Python, Golang, Shell, SQL

AI/ML: Agentic AI, LangChain, LangGraph, LLM orchestration, RAG, prompt engineering, PyTorch, Keras

Backend & Data: FastAPI, Django, Celery, REST APIs, PostgreSQL, MongoDB, Snowflake

Platform: Docker, Kubernetes, Azure, AWS, CI/CD, Edge Computing

EXPERIENCE

Morgan Stanley | Software Development Engineer - III | Bengaluru, IN **Jul 2021 - Present**

- Architected and led development of an agentic AI platform resolving 1M+ trade breaks per cycle in under 15 minutes at 12M tokens/min sustained LLM throughput, replacing a 40-person manual process — 82% cost savings, 96% faster resolution.
- Partnered with forward-deployed engineers and operations stakeholders to translate requirements into system architecture; served as technical point of contact for client-facing and cross-team initiatives.
- Led a cross-region GenAI initiative for large-scale code conversion and refactoring, cutting technical debt 40% across 15+ modules and improving deployment velocity.
- Mentored 4 engineers through design reviews and hands-on training; influenced design decisions beyond immediate team boundaries.
- Designed and drove adoption of a secure code-review framework aligned with internal security standards — 50% reduction in audit-identified vulnerabilities within six months.

Qualys Inc. | Python & Machine Learning Engineer | Pune, IN **Jan 2020 – Jul 2021**

- Benchmarked and optimized ML threat-detection pipelines with security researchers, achieving up to 3x processing speed with no accuracy loss.
- Automated provisioning and lifecycle management of 80+ VMs (92% less manual effort); curated training datasets from 300,000+ malware samples.

Smartiply Inc. (Wistron AIEdge) | Software Engineer | Navi Mumbai, IN **Sep 2018 – Jan 2020**

- Built backend systems for edge-AI deployments in constrained, OT-adjacent network environments, cutting end-to-end video streaming latency by 7 seconds.
- Led development of a centralized platform to manage, monitor, and configure 1,000+ distributed edge devices.

Paramatrix Technologies Pvt. Ltd. | Software Engineer | Navi Mumbai, IN **Jul 2015 – Sep 2018**

- Built a rules-driven compliance platform adopted by 47 companies (30% faster compliance workflows) and a messaging system processing 5M+ messages/day for a leading securities broker.

PROJECTS

PromptRefiner - Open-source CLI-first library to refine prompts; supports 100+ LLMs; published on PyPI.

EDUCATION

Birla Vishvakarma Mahavidyalaya Engineering College (GTU)

2015

Bachelor of Engineering in Information & Technology - 7.66/10

Anand, Gujarat

CERTIFICATIONS & AWARDS

- Anthropic Academy: **Agent Skills, Claude Code 101**
- Microsoft Certified: **Azure Fundamentals, Azure AI Fundamentals**
- **India IST Circle of Excellence** — Platform Modernization, Morgan Stanley
- **India Ops Tech R&R** — Outstanding Delivery, Morgan Stanley