



DHANANJAY PATIL

Software Backend Engineer | Tech Leader

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[LeetCode](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Backend Software & Cloud Engineer with **8+ years** building large-scale distributed systems across AWS, Azure, and high-security environments. Specialist in microservices, cloud-native architectures, Infrastructure as Code (IaC), API platforms, workflow engines, and cloud security automation. Proven track record delivering performance-optimized, secure, and high-availability systems for global products across **Cloud Security, Fintech, E-commerce, Payments, Telecom, and Enterprise SaaS**.

SKILLS

Programming Languages: JavaScript, Python, TypeScript, Bash

Backend Frameworks: Node.js, Express.js, NestJS, Flask, Django, FastAPI, GraphQL

Databases & Data Stores: SQL, MongoDB, Cassandra, Elasticsearch, Redis

AWS: Lambda, API Gateway, S3, EC2, CloudFormation, DynamoDB, SNS, SQS, Step Functions, CDK-TF

Azure: Functions, Virtual Machines, Storage Accounts, CosmosDB, FunctionApps, Logic Apps, Azure Bicep

Testing & QA: Pytest, Jest, Mocha, Chai, Sinon, Supertest

DevOps, Monitoring & Infra: Docker, Kubernetes, Jenkins, CI/CD, Kibana (ELK Stack), Grafana

Tools/Methodologies: Kafka, RabbitMQ, Camunda, Terraform, React, Git/BitBucket, Agile, SAFe

Core Competencies: SaaS architecture, Technical Design, Solution Architecture, Distributed Systems

WORK EXPERIENCE

Qualys

March 2025 – Present

Senior Software Engineer – Backend & Cloud Native

- Architected **multi-cloud cloud-native vulnerability and posture assessment platform (CSPM/DSPM)** leveraging zero-touch agentless snapshot and API-based scanning without impacting customers' workloads.
- Designed **Kafka-driven distributed microservices** processing 50K+ daily events with partition-aware scaling, distributed coordination (Redis), and resilient retry/dead-letter strategies to support multi-tenant SaaS scanning across 100+ concurrent enterprise environments.
- Engineered **Azure cross-subscription snapshot architecture** removing disk copy operations, reducing snapshot provisioning time by 60% while preserving customer-managed encryption key compliance.
- Developed a secure serverless scanning platform using Azure Functions and Logic Apps with managed identity authentication, eliminating credential storage and improving security posture.
- Automated compliance and governance workflows leveraging Key Vault encryption, fine-grained RBAC, and audit logging, reducing security violations by 85% for US Gov Cloud and FedRAMP compliance.
- Standardized secure infrastructure delivery using AWS **CloudFormation, Terraform and Azure Bicep** - implementing hub-spoke networking, private endpoints, strict NSGs, IAM/RBAC isolation, and customer-managed encryption at scale.
- **Optimized large-scale cloud discovery** through concurrent snapshot scheduling, API pagination tuning, adaptive rate limiting, and Redis-backed work queues, improving environment coverage speed by 40%.
- Implemented **centralized observability** (ELK stack + structured audit pipelines) enabling traceability across scan orchestration, compliance workflows, and cloud control-plane interactions.

Tech: Node.js, Java, Kafka, Spring Boot, Python, Elasticsearch, Terraform, Jenkins, Docker.

Globant

Jul 2021 – Feb 2025

Senior Software Engineer - Full stack

Project: Console Connect, Australia/Hong Kong - Billing Platform Integrations

- Broke monolith into 2 microservices, redesigned APIs + DB schema → 40% faster performance (NestJS, AWS).
- Integrated **PCI-compliant Hosted Payments Page** to automate card billing → 50% less manual effort and smoother payments.
- Built Zero trust **Policy-Based Access Control** with dynamic feature flags for real-time, granular authorisation.
- Designed **credit-card processing components** using strategy/factory patterns to support multi-vendor flows.
- Tuned PostgreSQL with indexing + caching → 18% faster queries.
- Proposed and shipped enhancements that boosted adoption & revenue potential by 12%.
- Led code reviews and mentored juniors; improved testing + deployment workflows.

Tech: NestJS, TypeScript, Camunda, Docker, React, PostgreSQL, MongoDB, Jest, SonarQube.

CasaOne

Nov 2020 – Jul 2021

Software Engineer - Backend

- Built backend modules for warehouse, inventory, and operations workflows; owned **LLD** → **API dev** → **testing** → **deployment**.
- Integrated DispatchTrack using the **adapter pattern + microservices** to streamline last-mile logistics.
- Cut API latency from 9–13 seconds → ~1–2 seconds using caching, connection pooling & optimized filtering.
- Improved admin dashboard UX and automation → 30% reduction in manual ops.
- Designed event-driven services using **Pub/Sub**; enforced TDD with Mocha/Chai.

Tech: Node.js, PostgreSQL, React, MongoDB, Python, Terraform, AWS SQS/SNS, Kibana.

TrueSparrow Systems - Pune

Jun 2018 – Nov 2020

Software Engineer - Backend

Project #1: [Moxie Studios](#)

- Built core modules for a fitness platform (auth, video, messaging).
- Integrated **OAuth2** (FB/Instagram/Google) to boost seamless user onboarding.
- Implemented browser video recording + compression using **FFMPEG & AWS Lambda**.
- Delivered real-time chat using **WebSockets + RabbitMQ**.
- Built scalable **Cassandra** data models for high-volume reactions/messages.

Tech: Node.js, Express, MySQL, Cassandra, Socket.io, AWS Lambda/SES.

Project #2: [Pepo](#)

- Built **notification framework** (emails + push/in-app) using SES, FCM, and Cassandra.
- Contributed to the OST [open-source caching layer](#) (Memcached/Redis/in-memory).
- Automated performance/error-handling scripts for backend reliability.

Tech: Node.js, Express, Cassandra, Memcached, Redis.

Project #3: [OST Platform](#)

- Built a REST API layer for an **Ethereum** scaling platform using **Web3**.
- Delivered full lifecycle development: DB → APIs → tests → deployments.
- Resolved heavy production issues (async failures, callback hell, range errors).
- Improved system throughput via sharding, parallelism, and pooling.
- Contributed to [OST Block Scanner](#) + [OST View](#) Open Source community projects.

Tech: Node.js, DynamoDB, MySQL, Express, RabbitMQ, Web3.

CERTIFICATIONS: [MongoDB SI Associate](#), [Neo4j Certified](#), GCP ACE (ongoing), AWS DBS (ongoing)

EDUCATION:

MBA IT & System Management – NMIMS, Mumbai, IN

2022 - 2024

B.E. Computer Engineering – PICT, Pune, IN

2014 - 2018