

Yash Mehta

Senior Software Engineer

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Backend engineer, 5+ years building scalable Node.js and Python services with strong REST API design and OWASP aligned security. Delivered 60% performance gains and 90% latency reductions, and resolved all VAPT-flagged vulnerabilities via rate limiting and hardened headers. Skilled across microservices, AWS, NoSQL, and CI/CD in agile teams.

Technical Skills

Languages & Runtimes

TypeScript, JavaScript, Node.js, Python

Frameworks & Libraries

NestJS, Express.js, Chalice, React, Next.js, TypeORM, Prisma, MongoDB, Tailwind CSS

Databases & Caching

PostgreSQL, MySQL, MongoDB, DynamoDB, Redis

Cloud & DevOps

AWS (Lambda, SQS, ECS, CloudWatch, Elastic Beanstalk, CDK), Docker, Jenkins, GitHub Actions, CI/CD

Security, APIs & Testing

REST APIs, OpenAPI/Swagger, OWASP, JWT, OAuth2, RBAC, API Rate Limiting, Helmet.js, Jest, Pytest, Mocha, TDD

Architecture & Engineering

Microservices, Distributed Systems, Event-Driven Architecture, Serverless, Multi-Tenant Architecture, DDD, Clean Architecture, System Design, Performance Optimization, Data Modeling, Query Optimization

Experience

NetWeb Software

Senior Software Engineer

12/2025 – Present | Hyderabad, India

Stack: Python, Chalice, AWS (SQS, Lambda, DynamoDB, Elastic Beanstalk, CDK), Pytest

- Lead a **6-engineer squad** inside a **30-Engineer team**, owning integration microservices end-to-end and delivering a zero-rollback alpha release across **5 sprint cycles**.
- Built and owned the integration microservice layer for a multi-tenant school district platform — event-driven on AWS SQS + Lambda + DynamoDB, provisioned via CDK, processing **10,000+ record bursts** with fault-tolerant sync and strict per-tenant data isolation.
- Engineered DynamoDB data models for the service. Defined PK-SK access patterns and GSIs across multiple entity types to eliminate full-table scans, enforce per-tenant query boundaries, and support efficient multi-access-pattern reads without duplication.
- Improved backend performance by **60%** through database call batching and query refactoring, reducing load on hot paths under peak traffic.
- Drove Pytest coverage to **90%+** across Python services and reviewed **160+ PRs** across **3 squads** over 8 months, enforcing code standards, running the backend interview loop, and mentoring a mid-level engineer through pairing and design reviews.

Software Engineer

07/2024 – 11/2025 | Hyderabad, India

Stack: Node.js, TypeScript, PostgreSQL, AWS CloudWatch

- Architected modular services and PostgreSQL schemas in Node.js/TypeScript using Domain-Driven Design, standardising contracts across **100+ API endpoints** to reduce cross-team integration effort and eliminate versioning conflicts.
- Hardened API security with OWASP-aligned controls — configured **7 security headers** (CSP, HSTS, XSS protection, clickjacking prevention), implemented rate limiting and request validation, and resolved all vulnerabilities flagged in VAPT assessment.
- Configured AWS CloudWatch log groups and structured log aggregation across all microservices, enabling consistent observability and reducing mean time to identify and debug production incidents.
- Mentored 1 intern through structured code reviews, improving code quality and shortening review cycle time.

Software Engineer, JKL Infotech

09/2023 – 06/2024 | Ahmedabad, India

Stack: NestJS, Node.js, TypeScript, PostgreSQL, AWS Lambda, TypeORM, Jest, Docker, Jenkins

- Built a microservices-based multi-tenant SaaS accounting platform from **0→1** with database-per-tenant isolation, enabling successful alpha launch within an 8-engineer team.
- Designed and optimised RESTful APIs under a TDD-driven microservices architecture, reducing API response time by **70%** and maintaining **90%+** unit test coverage with Jest.
- Migrated compute-heavy services to AWS Lambda, cutting server costs by **~10%** through serverless adoption.
- Implemented a JWT/OAuth2/RBAC authentication framework with custom read/write/delete permissions across **16 modules**, enforcing least-privilege access across all API endpoints.
- Containerised services with Docker and automated CI/CD pipelines via Jenkins, enabling consistent and repeatable production releases.

Jr Software Engineer, Deepcoder

09/2022 – 07/2023 | Ahmedabad, India

Stack: Node.js, NestJS, MongoDB, Redis, Docker

- Created a real-time navigation platform serving **370+** test centres, designing RESTful APIs for dynamic route generation and high-availability workflows within a 6-engineer team.
- Reduced average API response time from **5s to 0.5s (90% improvement)** using Redis caching, query optimisation, and pagination strategies.
- Integrated a secure payment gateway with webhook-based real-time transaction updates, supporting end-to-end booking flows.
- Containerised **3 core services** with Docker for deployment consistency and contributed to schema and system design improvements across the monolith.

Arishti Info Labs

Research Engineer

05/2021 – 07/2022 | Gujarat, India

Stack: Node.js, IoT

- Co-invented and contributed to the architectural design of an Over-The-Air (OTA) Update Management System for IoT devices on local networks (patent pending, filed 31/03/2021).
- Designed RESTful APIs in Node.js for secure authentication, file handling, and device communication; engineered POCs validating multi-device firmware orchestration across heterogeneous IoT networks.

Research Intern

10/2020 – 03/2021 | Gujarat, India

- Researched and drafted the provisional patent for the OTA update mechanism.
- Researched security challenges faced by various IoT devices.

Publications

An update management system for IoT devices and method thereof

31/03/2021

Patent Application — Over-The-Air Update Management System for IoT devices within local networks:

- Co-inventor, patent application (Assignee: Arishti Info Labs, filed 31/03/2021).

Education

Master of Science (MS) Computer Science, Woolf University (European Union accredited) 

Bachelor of Science (B.Sc.) Information Technology, Sikkim Manipal University