

RAHUL YADAV

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Senior Software Engineer with **6 years** of experience delivering **backend-heavy full-stack systems** across Python/FastAPI/Django, React/Vue, PostgreSQL, and AWS - from API and data design through frontend integration, testing, and release.

TECHNICAL SKILLS

Backend: Python, FastAPI, Django, Django REST Framework, Flask, SQLAlchemy, Pydantic, REST APIs

Frontend: JavaScript, React, Redux, Vue.js, Nuxt.js, Quasar, HTML/CSS, Jest

Data, Messaging & Cloud: SQL, PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ (queues, retries, DLQs), AWS (ALB, Lambda, ECS/Fargate, RDS, S3, CloudFront), GCP

Engineering: API Design, Authentication & Authorization, Caching, Performance Optimization, pytest, CI/CD, Docker, Code Review, SOLID Principles

EXPERIENCE

Sopra Steria | Senior Software Engineer

Aug 2025 - Present

Client: Airbus | Enterprise application modernization | PHP to FastAPI/React

- Co-designed a hybrid PHP-to-FastAPI/React modernization architecture based on the **Strangler Fig pattern**, implementing **AWS ALB listener-rule URL rewrite transforms** for phased routing without a big-bang cutover.
- Designed shared **identity, authorization, and configuration state** across **FastAPI and React** using dependency injection, selective caching, client-side persistence, and periodic synchronization.
- Owned end-to-end migration of core workflow-management features from **PHP to FastAPI/React**; delivered configurable forms, a reusable **multi-select React component**, and a multi-field user-search API.
- Migrated **2 cross-cutting platform capabilities - User Impersonation and Audit Logging** - with authorization-aware client state, server-side authorization enforcement, and filterable/paginated audit logs with React infinite scroll.
- Reduced primary data-grid API payloads from **~1.5-2 MB to <1 MB** through response shaping and **Gzip compression**, meeting the ALB-to-Lambda 1 MB response limit for deeply nested workflow data.
- Led delivery for **3 engineers, reviewed PRs across Sopra, Airbus, and partner teams**, and introduced database-backed pytest fixtures for persistence and authorization testing, reducing reliance on mock-heavy tests.

Gainfront | Software Developer

Jun 2023 - Aug 2025

- Modernized **5 supplier-facing modules** - Supplier Profile, Discovery, Purchasing, Registration, and Dashboards - from server-rendered Django to **decoupled DRF APIs and a Vue.js/Quasar SPA**, supporting configuration-driven country/customer form variants.
- Designed and delivered **4 greenfield modules** - Request for Price, Target Report, Spend Analytics, and Itemized Quote - across DRF APIs and Vue/Quasar interfaces from requirements through release.
- Designed a **RabbitMQ-based asynchronous document-processing prototype** for contract, invoice, and supplier-certificate workflows, covering queue-based processing, retries/backoff, and DLQs.
- Implemented **JWT authentication with Redis-backed token revocation and API rate limiting**; contributed to AWS ECS/RDS architecture.
- Helped raise backend test coverage by **~45 percentage points (~40% to ~85%)** by adding **pytest** coverage for new and migrated flows and strengthening CI/linting checks; reinforced maintainability through code reviews and design discussions.

MarsDevs | Software Engineer

Nov 2020 - Jun 2023

- Delivered full-stack features for **Polestar** across Django/DRF APIs and Vue.js/Nuxt.js frontends, including regional workflows, finance and payment flows, third-party integrations, and releases; mentored interns.
- Reduced Castapp video-generation time by **60%** by optimizing **Python/Flask processing and GCP task orchestration** while improving React components.
- Delivered a **Google Cloud Document AI** processor for Afto, tyre-health APIs and ReportLab PDF reports for TyreExpress, and backend test improvements that increased Medtrics coverage by **35%**.

EDUCATION

Bachelor of Engineering in Computer Engineering | Thakur College of Engineering and Technology, University of Mumbai
2016 - 2020 | CGPA: 8.74/10