

SAHIL RAJPAL

Backend Engineer | SDE 2

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Summary

Backend engineer, nearly 5 years, mostly Python. Built the 1Checkout flow at Pragma that lifted conversion 20%, owned ~90% of the procurement platform at FactWise, and at Loopio I'm shipping content migration tooling, a reporting microservice + data warehouse, and document parsing - across Python (Django/DRF/FastAPI/Celery), PHP/CodeIgniter, and C#/.NET.

Work Experience

Loopio 🏠 | *SDE 2 | Python, FastAPI, PHP, MySQL, Redshift, Airflow, C#/.NET*

Sept 2024 - Present

- **Content Migration Platform:** Designed and shipped a migration tool on PHP/CodeIgniter for an enterprise customer (Alight), replacing a months-long manual Professional Services workflow with a reusable platform leveraged on subsequent migrations.
- **Reporting Microservice + Data Warehouse:** Pulled project reporting out of the monolith into a standalone Python/FastAPI service; built the data warehouse layer (fact tables, dimensions, views) with Airflow-orchestrated pipelines surfacing aggregates over Redshift.
- **Strategic Insights (AI Platform):** Owned auth/authz, repo-wide unit-test coverage, Sentry observability, and LLM context-reduction spikes for an AI product surfacing win-themes and readiness scores across 10+ years of customer RFP data.
- **Library Review Audit Trail:** Led the data foundation and report surfaces for a Q4 commitment to a regulated enterprise customer (Harbourvest, Verizon); shared design with stakeholders early and incorporated feedback before implementation.
- **RFP Document Ingestion (C#/.NET):** Shipped Excel parsing and worked on the PDF pipeline (Aspose) for a document-ingestion service - ramped onto a new stack as the team needed reinforcement.

Pragma 🏠 | *Software Engineer | Python, FastAPI, Django, DRF, PostgreSQL, Celery, Redis*

Jul 2023 - Aug 2024

- **1Checkout + Payment Gateways:** Owned the 1Checkout 🏠 flow end-to-end; integrated PhonePe, Razorpay, Cashfree, and Snapmint - landed a measurable **+20% conversion lift** for D2C merchants.
- **Async Settlement + Failure Handling:** Rewrote large parts of the order/payment pipeline - moved heavy work to background Celery tasks, sped up transaction settlement, and hardened payment-failure paths (retries, idempotent reconciliation, clearer merchant-facing errors).
- **Feature Breadth on Checkout:** Built partial-COD (deposit + delivery balance to fight COD fraud), shipping configuration, and blacklist controls by email, phone, and city - features scoped directly from merchant calls.
- **Codebase Hardening:** Conducted a thorough codebase review and led refactors that improved API latency, modularity, and PEP8 adherence; reduced maintenance friction across the team.
- **Production Incident Response:** Drove triage, mitigation, post-mortem, and prevention across payment-gateway failures and other revenue-critical incidents; comfortable multitasking under outage pressure.
- **Merchant + Cross-Functional Collaboration:** Spent meaningful time on merchant calls; partnered with product on UX improvements that shaped direction of 1Checkout iterations.

FactWise 🏠 | *Software Engineer | Python, Django, DRF, PostgreSQL, Docker, Celery*

Jul 2021 - Jul 2023

- **Source-to-Pay Backend Lead:** Owned ~90% of modules on a procurement platform - events & negotiation, purchase orders (incl. draft POs), invoices, quality checks, goods receipts, admin panel, notification configurations, approval flows, and audit trails.
- **Approval-Flow Engine:** Designed a composable engine - rule composition, role-based assignment, audit trail on every state change - that eliminated bespoke per-customer code as the platform scaled.
- **Codebase Quality + Modularity:** Drove clean-code principles, refactors, and modular boundaries across the backend - kept the system maintainable as the surface area grew and the team scaled.
- **Task Ownership + Cross-Functional Collaboration:** Worked closely with Product Management and engineering stakeholders on requirement refinement and delivery; assigned tasks based on teammate strengths and tracked work to completion.
- **Mentorship + Customer Calls:** Mentored a rotation of PM and dev interns through ramp-up; drove customer calls with procurement leads, translating workflows into shipped features.

Internships

Crio.do | *Python, Django, REST APIs, Linux*

Jan 2021 – Apr 2021

- **Developer Fundamentals:** Completed hands-on modules covering HTTP, REST APIs, and Linux; finished a timed coding challenge and shipped a small web app (Xmeme).
- **Doc Lib:** Built and published a tool enabling seamless file transfer between cloud service providers.

Projects

Sitechecker [↗](#) | *Python, Django, PostgreSQL, Celery, Redis, Docker, Nginx*

- **Self-Hosted Infrastructure Monitoring:** Open-source platform monitoring services via **HTTP** (GET + status validation), **TCP** (host:port reachability), and **ICMP** ping checks - scheduled by Celery Beat; flap-suppression via a configurable consecutive-mismatch back-off before any alert fires.
- **Severity-Aware Alerting:** Two-tier alert system with distinct throttles (**Warning** \leq 1/day, **Critical** \leq 1/hour) routed through plugin-based dispatchers (SMS, email, Telegram) - new channels add without touching the core.
- **Two-Queue Celery Architecture:** Decoupled check and alert pipelines into separate `check.queue` and `alert.queue` so an alert-flood can't starve monitoring; stateless Dockerized workers scale horizontally with the number of checks.
- **Extensible Plugin System:** Python modules registered via Django management commands (`add_plugin/remove_plugin`); reference implementation *sitechecker-generic-plugin* demonstrates adding a new alerting channel without forking core.

Technical Skills

Languages: Python, SQL, JavaScript; PHP, C#/.NET

Backend: Django, Django REST Framework, FastAPI, Celery, CodeIgniter

Data: PostgreSQL, MySQL, Redshift, DynamoDB, Redis; Airflow, data warehouse design

Cloud / Infra: AWS (SQS, DynamoDB, Redshift, S3), Docker, Linux, Git

Observability: Sentry, Datadog

Education

Vivekanand Education Society's Institute of Technology

Aug 2017 – Jun 2021

B.E. Computer Engineering

Mumbai, India

K.D. College

Jun 2015 – Apr 2017

H.S.C.

Mumbai, India

Certifications

CutShort Advanced Python Certificate [↗](#)