

SAKSHAM SHIL

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EXPERIENCE

Software Engineer

Velocity Software Solutions

May 2025 - Present

Noida, India

UNDP CSR Matchmaking Platform (*Django, PostgreSQL, Docker, Celery, Redis*)

csr.tn.gov.in

- Delivered a government-grade CSR matching platform for UNDP serving 50+ government departments, 30+ districts, and 60+ registered corporates, with real-time geographic eligibility scoring and auto-assignment logic.
- Shipped 120+ REST APIs with dual-tier approval workflow and RBAC across 5 user types; deployed to GCP via Docker Compose (Gunicorn, Celery, RabbitMQ, Redis, Nginx) with strategic indexing on a separate database server.

1Platform - Governance Platform (*FastAPI, PostgreSQL, RabbitMQ, gRPC, Redis*)

- Owned the Auth microservice end-to-end: JWT session management with device and IP metadata, Microsoft Entra SSO, Azure AD group sync, and 10+ RBAC roles serving as the identity source of truth for the platform via gRPC.
- Designed and owned the Notification Engine: event-driven pipeline consuming RabbitMQ audit events across 3 microservices, evaluating admin-configured alert rules, deduplicating recipients (users, groups, direct email) via auth gRPC, and dispatching batched emails via Microsoft Graph API or SMTP.
- Implemented cross-service permission propagation across 4 FastAPI microservices with fine-grained role inheritance and schema migrations via SQLAlchemy/Alembic.

Trogo.ai - AI-Powered eCommerce Content Platform (*Django, PostgreSQL, Celery, Redis*)

- Parallelised OpenAI model content generation via Celery workers with Dify workflows, processing 10k-product batch jobs with a soft-cancel pattern to prevent Redis blocking and race-condition-free progress tracking.
- Engineered bidirectional Shopify GraphQL integration with encrypted OAuth, rollback support, and conflict-resolving multi-source import (CSV, Shopify API) across 50+ versioned REST APIs.

SKILLS

Programming Languages

Python, JavaScript, TypeScript, Java

Frameworks

FastAPI, Django, Django REST Framework, React, Celery

Database & Infrastructure

PostgreSQL, Redis, RabbitMQ, SQLAlchemy, Alembic

Tools & Technologies

Microservices Architecture, Docker, Linux, gRPC, GraphQL, Git, Dify.ai

PROJECTS

Another Set of Eyes (*FastAPI, SSE, HTMX, Python*)

asoe.sakshamshil.xyz

- Launched a real-time plan viewer for AI coding agents; a skill file installed via `npx asoe-install` lets Claude Code, Codex, and Cursor stream markdown plans to a live browser tab as they are written, solving terminal scroll loss during long agent runs.

EDUCATION

Bhagwan Parshuram Institute of Technology

B.Tech Information Technology | GPA: 8.76

Delhi, India

2021 - 2025

EXTRA-CURRICULAR ACHIEVEMENTS

- Founded and led college Chess Club, achieving 1st place at IPU Sports Meet 2024
- Gold Medals in Cricket at IIT-Ropar Sports Fest 2023 and IPU Sports Meet 2022