

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 matchmaking platform for UNDP serving 50+ departments, 30+ districts, and 60+ corporates, with real-time geographic eligibility scoring and automated assignment workflows.
- Shipped 120+ REST APIs and a dual-tier approval workflow with RBAC across 5 user types; deployed the platform on GCP using Docker Compose, Gunicorn, Celery, RabbitMQ, Redis, and Nginx with strategic database indexing.

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

- Owned the Auth microservice end to end, implementing JWT-based session management with device and IP metadata, Microsoft Entra SSO, Azure AD group sync, and 10+ RBAC roles as the platform's identity source of truth via gRPC.
- Architected the Notification Engine, an event-driven pipeline consuming RabbitMQ audit events across 3 microservices, evaluating admin-defined alert rules, deduplicating recipients via auth gRPC, and sending batched notifications through Microsoft Graph API and SMTP.
- Implemented cross-service permission propagation across 4 FastAPI microservices with fine-grained role inheritance and managed schema migrations using SQLAlchemy and Alembic.

TriangleIP - IP Management Platform (*Django, React, MySQL, Celery, Redis, Ollama*)

triangleip.com

- Drove patent portfolio tracking, idea management, and workflow automation on a live IP platform used by law firms and enterprises, contributing across both the Django/DRF backend and React frontend.
- Developed AI-generated patent summaries using a self-hosted Ollama model processed asynchronously via Celery, with RBAC controls enforcing attorney, analyst, and admin access to sensitive patent data.

SKILLS

Programming Languages

Python, JavaScript, TypeScript, Java

Frameworks

FastAPI, Django, Django REST Framework, React, Celery

AI / Gen AI

RAG, LLM application engineering, agentic workflows & tool-calling (MCP), evals, guardrails & observability, LangChain, LangGraph, LangSmith

Database & Infrastructure

PostgreSQL, MySQL, 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

- Created and launched a real-time plan viewer for AI coding agents; a skill installed via `npx asoe-install` lets Claude Code, Codex, and Cursor stream markdown plans to a live browser tab, solving terminal scroll loss in long-running agent sessions.

EDUCATION

Bhagwan Parshuram Institute of Technology

B.Tech Information Technology | GPA: 8.76

Delhi, India

2021 - 2025

LEADERSHIP & ACHIEVEMENTS

- Founded and led the college Chess Club; secured 1st place at IPU Sports Meet 2024
- Won Gold in Cricket at IIT Ropar Sports Fest 2023 and IPU Sports Meet 2022