

MOHAMMED SHAHSAD KP

shahsadbkplr@gmail.com

+91 9633 621 738

[LinkedIn](#)

[GitHub](#)

[Medium](#)

www.shahsadbkplr.dev

SUMMARY

SKILLS

- **Languages & Frameworks:** Python, Django, FastAPI, Flask, Django Rest Framework (DRF), Node.js, JavaScript, React.js, Fast API, Microservice, GraphQL, Next.js, Express.js, ETL, TypeScript
- **Databases & Caching:** Postgres, SQL, Redis, Firebase, SQLAlchemy, MongoDB
- **Cloud & DevOps:** AWS, Docker, NGINX, Google Cloud, Azure, Traefik
- **Tools & Concepts:** REST API, GraphQL, WebSocket, Git, Data Structures and Algorithms (DSA), CI/CD, WebRTC, Database Design, Microservices
- **AI-Assisted Development:** Claude Code, GitHub Copilot, Gemini CLI, Prompt Engineering, AI-assisted debugging, code generation, refactoring.

EXPERIENCE

[SellCord LLC, Bengaluru](#) – Software Engineer

February 2026 - May 2026

- Worked as a **Software Engineer**, developing and maintaining web applications using **Python, Django, JavaScript, React.js, PostgreSQL, Celery**, and related technologies across multiple business-critical features.
- **Email Automation:** Integrated and managed **SendGrid**-based email services, implementing reusable template-driven workflows for transactional emails, notifications, and platform communications.
- **Data Engineering:** Designed and developed scheduled **ETL pipelines** using **Celery Beat** to automate data ingestion, synchronization, and transformation processes, ensuring consistent and reliable data availability.
- **Feature Development & System Evolution:** Built frontend modules and administrative interfaces in React.js while contributing to backend refactoring, database schema enhancements, and application architecture improvements to support evolving product requirements.
- **Quality Assurance & Testing:** Ensured application reliability through **comprehensive testing**, including **unit test** development, **feature validation**, **bug investigation**, and verification of business-critical workflows before production releases.

[Reckonsys Tech Labs, Bengaluru](#) — Software Engineer

July 2023 – January 2026

- Worked as a **Software Engineer**, contributing to multiple projects both independently and collaboratively, using **Django** and **React.js** with **RESTful** and **GraphQL** APIs.
- **Design & Deployment**: Designed, developed, and deployed scalable backend systems on **AWS**, managing end-to-end **CI/CD** deployment pipelines to ensure production readiness.
- **Performance & Reliability**: Engineered reliable **RESTful APIs** with **Django Rest Framework**, achieving a 30% improvement in system performance by identifying and resolving complex technical issues through SQL query optimization and performance tuning.
- **Code Quality**: Wrote clean, maintainable, and efficient code following software engineering best practices; actively participated in code reviews and used **SonarQube** to ensure high code quality and knowledge sharing.
- **Collaboration**: Collaborated with product managers and engineering teams to translate requirements into technical specifications, ensuring alignment and successful feature delivery.

PROJECTS

Marketplace Advertising Platform

- Integrated **SendGrid** to build a reliable transactional email service for user notifications and application workflows. Designed reusable backend email services to simplify future integrations and maintenance.
- Designed and optimized **ETL pipelines** to periodically fetch and process Walmart marketplace data using **Celery** and **Celery Beat**. Automated scheduled synchronization and improved the reliability of long-running background data processing.

AI-Driven B2B Marketing Platform

- Developed backend services responsible for email sending and email polling across multiple connected mail providers. Built APIs and background processes to ensure reliable communication workflows across different integrations.
- Contributed to multiple backend microservices built using **Flask**, **FastAPI**, and **Express.js**, while working with **AWS DynamoDB** for NoSQL data storage. Collaborated across services to implement new functionality and improve existing systems.
- Designed and implemented a rich text editor with custom formatting capabilities to support advanced email composition. Added application-specific features to improve the overall user experience.
- Worked across both frontend and backend using **React.js**, **Next.js**, and Python services, contributing to feature development, debugging, and application improvements throughout the product lifecycle.
- Built a custom authentication mechanism for **microservices** using service-specific tokens and internal network validation, while securing external APIs with **JWT** authentication.

Real Estate Management Platform

- Took complete ownership of backend development, leading feature implementation, production deployments, and ongoing maintenance throughout the project lifecycle. Worked closely with frontend developers to deliver stable and production-ready releases.
- Designed and implemented a scalable multi-file upload system that enabled users to upload files directly from the React.js frontend to **Amazon S3**. The solution reduced backend server load while improving upload efficiency and overall application performance.
- Managed production infrastructure and deployments using **AWS EC2, Amazon S3, CloudFront, Docker, and Traefik**. Configured deployment pipelines, maintained production servers, and ensured reliable application availability.
- Designed and developed a **session-based** system with **role-based access control (RBAC)** for different categories of users.

Home Energy Renovation Platform

- Built the entire platform from scratch using **Django** and **React.js**, taking ownership from initial architecture and database design through development, deployment, and production release. Contributed across backend, frontend, infrastructure, and cloud architecture.
- Planned, configured, and maintained the complete AWS infrastructure using **EC2, RDS, S3, CloudFront, VPC, ECS, EKS, Route 53, and Application Load Balancers**. Successfully deployed the backend, frontend, and landing page while ensuring scalability and production reliability.
- Designed and maintained a dedicated AWS VPS for securely storing official documents within region-specific infrastructure. Configured secure storage architecture and managed server environments according to project requirements.
- Built a fully dynamic questionnaire engine where administrators could create, modify, and manage questionnaires directly through the Django Admin interface. Enabled business users to update workflows without requiring code changes or engineering support.
- Implemented a flexible authorization system using **Django Proxy Models** to support multiple user types with customized permissions and business logic. Designed the access control structure to remain maintainable as new roles were introduced.
- Built a complete **Wagtail CMS** from scratch, enabling non-technical users to independently manage website pages, business content, and marketing information without requiring developer intervention.
- Designed the complete relational database schema after analyzing business requirements, creating scalable data models that supported future feature development while maintaining clean relationships between entities.
- Integrated **Postmark** to provide reliable transactional email delivery across different application workflows, notifications, and user communication processes.
- Implemented **JWT-based** authentication for users and secured **webhook** endpoints using **API token authentication** to enable trusted event-driven communication with external services.

Lead Discovery Platform

- Led the development of a discovery platform from scratch using **Django**, **React.js**, **GraphQL**, **Redis**, and **Celery**, taking ownership of the platform architecture, backend services, deployment, and several core technical decisions throughout the project lifecycle.
- Redesigned the database schema and optimized SQL queries for datasets containing **over 1 million records**, reducing API response times from **more than 30 seconds to under 200 milliseconds**. Improved overall system performance by identifying database bottlenecks and redesigning data access patterns for large-scale datasets.
- Designed and built a custom **Static Site Generation (SSG)** framework using **Django**, **Celery**, and **AWS Lambda** to generate SEO-friendly static pages for dynamic content. The SEO improvements contributed to approximately **45% growth in client acquisition within three months**, while significantly improving search engine visibility.
- Architected the backend using **GraphQL** to efficiently handle dynamic client-specific data while providing a flexible API capable of supporting future feature expansion and frontend scalability.
- Implemented authentication and authorization using **Django Proxy Models**, enabling fine-grained permission management and role-specific application behavior without introducing unnecessary database complexity.
- Integrated **Stripe** to support multiple subscription plans and pricing models, implementing the backend logic required to manage customer subscriptions and payment workflows.
- Built a complete **Wagtail CMS** that enabled business teams to independently manage landing pages and marketing content, reducing developer dependency for routine content updates.
- Leveraged **AWS Lambda** to execute infrequent but highly CPU-intensive background workloads, reducing the load on long-running application servers while optimizing infrastructure utilization and execution cost.
- Adopted **Amazon ECS** for containerized application deployments, enabling consistent deployment environments, simplified release management, and improved scalability of production services.
- Managed production infrastructure using **AWS EC2**, **RDS**, **S3**, **CloudFront**, **Docker**, and **Traefik**, maintaining highly available environments and ensuring reliable production deployments.
- Implemented **JWT-based** authentication for user access and **OAuth 2.0** authorization to securely integrate with third-party services and external APIs.

Airline Retailing Platform

- Contributed to the development of a flight booking platform built on a **microservices** and **microfrontend** architecture using **Django**, **React.js**, and **GraphQL**. Worked across multiple modules to deliver backend services and frontend functionality.
- Successfully integrated an additional airline into the booking platform by implementing the required business logic and backend integrations, expanding the platform's airline inventory and booking capabilities.
- Integrated **Amadeus APIs** and **Qatar NDC APIs** through **GraphQL** to support flight search, booking, ticket issuance, and airline-related operations. Developed backend services for communicating with external airline providers while ensuring reliable booking workflows.

Isolated Multi-Tenant Ticketing & Task Management System

- Worked on an internal ticketing platform built using tightly coupled Python microservices, contributing to backend feature development, maintenance, and continuous improvements supporting internal business operations.
- Modernized legacy backend services by migrating microservices from **OpenERP** to **FastAPI** using **SQLAlchemy**. Refactored existing services while preserving business functionality and aligning them with the newer architecture.
- Designed and developed a dedicated background processing microservice using **Redis** and an event-driven architecture to efficiently execute asynchronous jobs independently of user requests.

Multi-Tenant Timesheet Platform

- Built an internal timesheet management application using **Django** and **Django Templates**, allowing employees to submit, manage, and track timesheets through a centralized web application.
- Implemented a **multi-tenant architecture** that isolated each organization's database while allowing multiple organizations to use the same application securely. Designed the tenant architecture to ensure complete data isolation and simplify onboarding of new organizations.

EDUCATION

Bachelor of Computer Applications (BCA) – 2019 - 2022

Bengaluru City University