

SHIYAS M

Python Full Stack Developer

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PROFESSIONAL SUMMARY

Results-driven **Full Stack Developer** with expertise in building scalable web applications using **Python, Django, and React**. Proven success in optimizing **PostgreSQL** performance, implementing asynchronous task queues with **Celery and Redis**, and deploying containerized environments via **Docker, Nginx, and AWS**. Expert in architecting **AI-integrated systems** using **LiteLLM** to orchestrate multi-model workflows (OpenAI, Gemini, Groq). Committed to delivering high-performance, secure backend solutions through rigorous API design, **JWT authentication**, and cloud infrastructure automation.

TECHNICAL SKILLS

Programming: Python (Advanced), JavaScript (ES6+), HTML5, CSS3

Frontend: React, Redux, Tailwind CSS.

Backend: Django, Django REST Framework (DRF), RESTful API Design, JWT Authentication, Role-Based Access Control (RBAC).

Database & Cache: PostgreSQL, Redis, Firebase, SQLite.

DevOps & Infrastructure: AWS (EC2, RDS), Docker, Docker Compose, Nginx, Gunicorn, CI/CD, Git, Firebase Cloud Messaging (FCM).

Asynchronous & AI Systems: Celery, Celery Beat, LiteLLM, Multi-model Orchestration (OpenAI, Google Gemini, Groq).

Core Competencies: System Architecture, Microservices, Performance Optimization, Latency Reduction.

PROFESSIONAL EXPERIENCE

Bridgeon Solution LLP

07/2025 – Present | Kerala

Full Stack Python Developer Intern

- **Architected and deployed** scalable full-stack applications using React and Django, adhering to clean-code principles to enhance maintainability and reduce technical debt.
- **Engineered and secured** RESTful APIs with JWT-based authentication and granular Role-Based Access Control (RBAC), ensuring robust data protection and user authorization.
- **Optimized database performance** by restructuring complex PostgreSQL schemas and debugging high-latency queries, resulting in improved system response times and query execution efficiency.
- **Enhanced user experience** and application reliability by collaborating on cross-functional development tasks, focusing on responsive UI implementation and streamlined state management.

PROJECTS

MockAI | AI-Powered Interview Intelligence Platform

02/2026 – Present

Tech Stack: Python, Django, Celery, Redis, LiteLLM, React, AWS, Docker

- **Engineered a scalable AI-orchestration engine** using **LiteLLM**, implementing multi-model fallback logic across **OpenAI, Google Gemini, and Groq** to ensure 99.9% availability for real-time interview feedback.
- **Optimized system throughput** by implementing an **asynchronous task architecture** with **Celery and Redis**, offloading resource-intensive AI grading processes to background workers to maintain a sub-second UI response time.

- **Architected cloud-native deployment** on **AWS (EC2 & RDS)**, utilizing **Docker Compose** for environment consistency, with **Nginx** acting as a high-performance reverse proxy for SSL/HTTPS termination and WebSocket support.
- **Enhanced user engagement** by building a cross-platform notification system using **Firebase Cloud Messaging (FCM)** and **React Service Workers**, delivering real-time alerts for session completion and analytical reports.
- **Secured authentication workflows** by integrating **OAuth 2.0 (Google & GitHub)**, managing secure token exchange and state handling between a decoupled React frontend and Django backend.

E-Commerce Platform | High-Performance Tech Retail System

10/2025 – 10/2025

Tech Stack: Django, DRF, React, Redux, PostgreSQL

- **Engineered a high-concurrency backend** using **Django and DRF**, optimizing **PostgreSQL schema design** to handle complex product filtering and high-traffic inventory queries efficiently.
- **Developed a reactive frontend** using **React and Redux**, delivering a seamless user experience for complex state-driven features including real-time wishlist management and multi-step secure checkout.
- **Implemented robust data integrity** through optimized database indexing and query tuning, significantly reducing latency during peak concurrent user sessions.

EDUCATION

Panakkad Pookkoya Thangal Memorial Higher Secondary School

2023 – 2025 | Kottukkara, Kerala

Higher Secondary Certificate

LANGUAGES

English, Hindi, Malayalam