

Shiva Pal

SOFTWARE DEVELOPER

Passionate Software Developer with three years of experience in full-stack web development. Proficient in building scalable, high-performance applications using JavaScript frameworks, Node.js. Familiar with cloud-based technologies. Expertise in optimizing database queries, designing secure authentication systems, and implementing real-time features.

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WORK EXPERIENCE

Software Developer BRENOLABS

08/2022 - Present

Delhi, IN

Achievements/Tasks

- Built a school admission platform using react, focus on responsive UI, implementing dynamic form validation to reduce input errors, improving processing efficiency by 0%.
- Designed role-based access control (RBAC) for secure authentication and user permissions. Enhancing system security and ensuring proper access across user roles.
- Developed real-time messaging systems with one-to-one & group chat using Twilio, WebSockets, enabling instant communication with typing indicators, message delivery status.
- Extended Medusa.js to build a full-featured multi-vendor e-commerce backend, designing and implementing new database schemas and tables to support vendor management, order workflows, and custom business logic not available in the base platform.
- Integrated Stripe payment gateway with webhook-driven subscription management, enabling automated handling of subscription events and triggering relevant transactional emails and in-app actions to improve user experience and operational efficiency.
- Implemented Redis caching to optimize data retrieval and reduce load times by 35%, significantly enhancing platform performance and scalability.
- Optimized PostgreSQL queries, reducing API response time by 30% through indexing and query tuning.

EDUCATION

Bachelor's Degree GGSIPU

08/2019 - 08/2022

Delhi, India

SKILLS

Javascript

Typescript

React

Nodejs

Postgres

Redis

Docker

Linux

PERSONAL PROJECTS

MernByte | Full-Stack Microservices Project

- Project includes multiple services for authentication, catalog management and client interactions.
- Authentication Microservice : JWT auth with token rotation (HS256 & RS256), multi-tenancy, role-based access, request sanitization, TDD, and CI/CD with GitHub Actions.
- API Gateway : Integrated Kong for routing, security, and service management. .
- Admin Dashboard Service : React + Ant Design UI with React Query for user management and role assignment
- Catalog Service : Node.js + MongoDB APIs for products, categories, add-ons; AWS S3 for file storage.
- Client UI Repo: Next.js + Tailwind + Shadon UI with Redux for cart state management and SSR for performance

LocalMind - Local Semantic Chat System

- Built end-to-end semantic chat system built using Retrieval Augmented Generation. It enables intelligent Q&A over your documents (eg PDF's).
- Implement document ingestion, chunking, and local embedding with MiniLIM (Transformer.js).
- RAG pipeline using Nodejs, Express, BullMQ and Docker.
- Used Qdrant for vector storage and Valkey in memory store.
- Powered Q&A with Llama3 via Ollama, delivered semantic search and intelligent response.

Real-Time Chess Game

- A web-based multiplayer chess application featuring real-time gameplay and a responsive UI.
- Tech Stack: React, Tailwind CSS, React Router DOM, chess.js, Node.js, Express, Socket.IO