# SHASHI PRAKASH SINGH
## MERN Stack Developer

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## Summary

Full-stack MERN developer experienced in designing and deploying **scalable web applications** with a focus on backend and real-time systems. Skilled in **RESTful APIs**, **Microservices Architecture**, **JWT Authentication**, and **CI/CD pipelines**. Proficient in **Agile Scrum development**, cloud deployments, and monitoring with Grafana. Hands-on with **Docker**, **AWS**, and databases (**MongoDB, PostgreSQL, MySQL**). Exploring **Generative AI** tools to enhance modern applications with innovative, efficient solutions.

## Technical Skills

**Frontend:** React.js, Next.js, Redux, TanStack Query, Axios, Tailwind CSS
**Backend:** Node.js, Express.js, REST APIs, Microservices
**Databases:** MongoDB, PostgreSQL, MySQL
**Cloud & DevOps:** AWS (EC2, IAM, Lambda), Docker, Grafana, CI/CD
**Authentication:** JWT, Clerk, bcrypt
**Tools:** Git, GitHub, Vercel, Render, Postman
**AI Tools:** Langchain, Pinecone, RAG

## Experience

**Backend Developer Intern**                                        **July 2025 – September 2025**
*Esprit Systems Private Limited, Jalandhar, Punjab, India*

– Developed and deployed **12+ RESTful APIs** using Node.js and Express, reducing data retrieval time by **40%**.
– Engineered and configured MongoDB with optimized queries, handling over **1,000+ records** with sub-second latency.
– Executed JWT-based authentication and role-based access control across **5+ microservices ensuring secure access**.
– Collaborated with a team of 6 developers, contributing to a project that improved client onboarding speed by **25%**.
– Integrated **Grafana dashboards** to monitor API performance and server metrics, enabling real-time visibility and reducing downtime by **20%** through proactive issue detection and enhanced operational efficiency and reliability.

## Projects

**Spend-AI** | *Next.js, Clerk, Supabase, RAG, Pinecone, Langchain*                **April 2025 – July 2025**

– Built an AI-powered finance tracker processing **100+ receipts/day** with **95%+ accuracy** using OCR and serverless APIs.
– Automated budget alerts via Supabase webhooks and AI insights when usage exceeded **80%** across accounts instantly.
– Reduced manual expense entry time by **70%** by implementing a seamless pipeline that combines Clerk-authenticated uploads with a serverless OCR scanning module, enabling secure and automated ingestion of receipt data efficiently.
– Implemented a scalable **RAG-based search** using Langchain and Pinecone, optimizing search relevance by **12%**.
– Link: 🔗

**ChatSphere** | *React.js, Node.js, Express.js MongoDB, Socket.io*                **January 2025 – April 2025**

– Deployed a real-time chat app for **50+ users** with sub-**200ms** latency using Socket.io and Express framework globally.
– Engineered a secure **JWT auth with RBAC**, session refresh, and password hashing for scalable multi-user applications.
– Delivered instant messaging with delivery receipts, presence tracking, retry logic and real-time user updates across platforms.
– Optimized MongoDB queries and indexes, reducing fetch time by **40%** and lowering CPU usage for high-traffic workloads.
– Link: 🔗

## Education

**Bachelor of Technology in Computer Science**                      **November 2022 – May 2026**
*IMS Engineering College, Ghaziabad, Uttar Pradesh, India*                        *CGPA: 8.1/10*

## Certifications

• AWS Cloud Practitioner Essentials - Amazon Web Services (IAM, EC2, Lambda, Security) - via AWS Skill Builder 🔗

• Ethics in the Age of Generative AI - Responsible AI principles - via LinkedIn Learning 🔗

• JavaScript Bootcamp – Let's Upgrade - Projects on ES6, DOM, Fetch API, Event Handling 🔗