

# SHASHI PRAKASH SINGH

## MERN Stack Developer

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### Summary

Full-stack MERN developer and backend engineer experienced in designing and deploying **scalable web applications** with a focus on backend and real-time systems. Proficient in **REST APIs, Microservices Architecture, JWT Authentication**, and **CI/CD pipelines**. Hands-on with **Docker, AWS**, and **database (MongoDB, PostgreSQL, MySQL optimization)**. Currently exploring **Generative AI** and cloud deployments.

### Technical Skills

**Programming:** Java, C, JavaScript, TypeScript

**Frameworks & Libraries:** React.js, Next.js, Express.js, Node.js, Tailwind

**Databases:** MongoDB, PostgreSQL, MySQL

**Cloud & DevOps:** AWS (EC2, IAM, Lambda), Docker, Grafana(Loki, Promtail)

**AI Tools:** Langchain, Pinecone, RAG (Retrieval-Augmented Generation)

**Authentication:** JWT, bcrypt, Clerk

**Version Control & Tools:** Git, GitHub, Vercel, Render

### 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**.
- 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%**.

### 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.
- 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 [🔗](#)