Shashank Mishra

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SUMMARY

Full-Stack Software Engineer (2026) experienced in building scalable, production-grade web applications using React, Node.js, JavaScript(ES6+) and TypeScript. Strong in designing secure REST APIs, optimizing databases, and developing high-performance user interfaces. Built and deployed cloud-native systems on AWS with Docker, including microservices and AI-powered platforms, with solid foundations in system design and data structures.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C++, SQL
Frontend: React.js, Next.js, Tailwind CSS, Bootstrap, Responsive UI, REST API Integration
Backend: Node.js, Express.js, REST APIs, JWT Authentication, RBAC, Scalable Backend Design
Databases: MongoDB, PostgreSQL, Indexing, Query Optimization, Data Modeling
Tools: Docker, AWS (EC2 backend deployment, S3 static frontend hosting), Git, Postman, Linux
Core CS: Data Structures & Algorithms (200+ problems), DBMS, OS, OOPS

EXPERIENCE

Software Engineer Intern   May 2025 – July 2025
Innodeed Systems   *Hybrid*

- Developed and secured 15+ REST APIs using JWT authentication and RBAC supporting multi-role workflows
- Improved API performance by 35% through MongoDB query optimization, indexing, and schema tuning
- Integrated backend APIs with responsive frontend components ensuring secure and seamless data flow
- Enhanced system reliability by implementing validation, structured error handling, and debugging production issues

PROJECTS

AchievR - Digital Certification & Portfolio Platform | *React.js, MongoDB, Node.js, Express, AWS*   live

- Architected and deployed a scalable full-stack digital certification platform on AWS (EC2 + S3) supporting multi-role workflows across students, faculty, and recruiters
- Designed secure JWT-based authentication with RBAC and engineered the complete achievement lifecycle including submission, verification, certificate generation, and public portfolio publishing
- Optimized database queries using compound indexing and efficient pagination reducing retrieval latency by 30% for high-volume certificate records
- Engineered responsive React-based dashboards and verification interfaces enabling real-time certificate validation and seamless user experience

BrainCache - Knowledge Management Platform | *TypeScript, React.js, Node.js, Express, MongoDB*   live

- Built full-stack knowledge management platform with modular Node.js + TypeScript backend and responsive React UI supporting tagging, filtering, and fast document navigation
- Implemented indexed search, pagination, and optimized queries reducing average retrieval latency by 25%
- Designed secure REST APIs and integrated frontend state-driven UI for efficient document storage and retrieval
- Implemented centralized validation and error middleware improving backend stability and user experience

Infoverse AI - Enterprise RAG Backend Platform | *Node.js, TypeScript, PostgreSQL, Qdrant, Docker*   Github

- Designed and containerized microservices-based RAG platform separating embedding, retrieval, and inference layers using Docker
- Integrated Qdrant vector database and PostgreSQL enabling scalable semantic search and structured metadata storage
- Engineered end-to-end embedding and retrieval pipeline enabling real-time contextual knowledge querying and AI-driven response generation
- Optimized indexing and caching improving retrieval accuracy and response consistency under repeated queries

EDUCATION

Bhilai Institute of Technology, Durg   CGPA: 8.72
B.Tech in Computer Science and Engineering (Data Science)   *Sep 2022 – Present*

ACHIEVEMENTS

- Winner - Hack the Cosmos Hackathon (2025)
- Runner-Up - The Forge Hackathon, IIT Bhilai (2026)
- Campus Director - Hult Prize BIT Durg (Led 100+ participants, and a 38-member cross-functional team)