

SHASHANK MISHRA

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SUMMARY

Software Development Engineer (2026) with experience building secure REST APIs and shipping end-to-end features used by real users. Strong foundation in Data Structures & Algorithms, backend architecture, and database optimization. Proven ability to own features, improve system reliability, and deliver measurable performance gains.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, C++, Python
Backend: Node.js, Express.js, REST APIs, JWT Authentication, RBAC
Frontend: React.js, Next.js, Tailwind CSS, Bootstrap
Database: MongoDB (Indexes, Aggregations), PostgreSQL
DevOps & Tools: Docker, AWS EC2, S3, Nginx, PM2, CI/CD, Git, Postman
Core CS: Data Structures & Algorithms, OOP, API Optimization, Debugging

EXPERIENCE

Innodeed Systems Software Engineer Intern	May 2025 – July 2025 Hybrid
<ul style="list-style-type: none">Designed and implemented JWT-based authentication and Role-Based Access Control (RBAC) to secure 15+ REST APIs, enforcing strict access boundaries across multiple user rolesArchitected and optimized MongoDB schemas, indexes, and queries to support 300+ courses, ensuring stable performance under concurrent user trafficBuilt and shipped 10+ reusable frontend components using React & Tailwind CSS, improving velocity and UI consistencyIntegrated Stripe payment workflows to enable subscription-based monetization, supporting end-to-end payment processing in production environmentsImproved system reliability by identifying and resolving API & integration issues during development & pre-production testing	May 2024 – June 2024 Hybrid

PROJECTS

AchievR — Full-Stack Digital Achievement Platform | *React.js, Node.js, Express.js, Gemini, MongoDB, Docker, Tailwind CSS* [link](#)

- Built a MERN-based platform with role-based dashboards (Student, Faculty, Admin) to digitize academic and co-curricular achievement management
- Integrated AI-assisted certificate verification using Google Gemini API with QR-based certificate generation and email notifications, reducing manual verification effort by ~73%
- Designed and deployed 15+ secure REST APIs, optimizing database queries and handling thousands of daily requests with ~200ms response times under load testing
- Identified API performance bottleneck under concurrent load and redesigned query patterns to improve response stability

BrainCache - Content Management System | *TypeScript, React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT* [link](#)

- Designed and developed a production-ready full-stack application for creating, organizing, and sharing content, managing 500+ content items
- Implemented 15+ REST APIs with middleware-based authentication and authorization for secure access
- Built a multi-filter tagging and sharing system, reducing content retrieval time by ~60% and improving user engagement

EDUCATION

Bhilai Institute of Technology, Durg Sep 2022 - Present
B.Tech in Computer Science and Engineering (Data Science) CGPA: 8.74

ACHIEVEMENTS AND LEADERSHIP

- Winner** - Hack the Cosmos Hackathon (2025)
Grand Finalist - HackOMania (2025)
Solved 150+ DSA problems on LeetCode (Arrays, Trees, Graphs, DP, Hashing)
Campus Director - Hult Prize BIT Durg (Led 100+ participants and a 38-member cross-functional team)