

# 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

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| <b>Innodeed Systems</b><br>Software Engineer Intern  | May 2025 – July 2025<br>Hybrid |
| <ul style="list-style-type: none"><li>Designed and implemented JWT-based authentication and Role-Based Access Control (RBAC) to secure 15+ REST APIs, enforcing strict access boundaries across multiple user roles</li><li>Architected and optimized MongoDB schemas, indexes, and queries to support 300+ courses, ensuring stable performance under concurrent user traffic</li><li>Built and shipped 10+ reusable frontend components using React &amp; Tailwind CSS, improving velocity and UI consistency</li><li>Integrated Stripe payment workflows to enable subscription-based monetization, supporting end-to-end payment processing in production environments</li><li>Improved system reliability by identifying and resolving API &amp; integration issues during development &amp; pre-production testing</li></ul> |                                |
| <b>Aon Digicon</b><br>Web Developer Intern   | May 2024 – June 2024<br>Hybrid |
| <ul style="list-style-type: none"><li>Developed a full-stack car servicing e-commerce platform supporting service selection, vehicle configuration, and booking workflows</li><li>Implemented dynamic pricing logic and automated invoice generation, reducing manual billing errors and improving pricing accuracy</li><li>Handled backend validations, API integrations, and data flow between frontend and Node.js services</li></ul>   |                                |

## 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

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