# TUSHAR GUPTA

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## Education

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| **Indian Institute of Information Technology, Sonepat** | **Aug 2023 – Present** |

*Bachelor of Technology in Information Technology — CGPA: 9.5/10 (Till 4th Semester)*

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| **Intact Public School, Dibai (Bulandshahr)** | **Apr 2021 – Mar 2022** |

*Class XII – CBSE — 95.6%*

## Technical Skills

**Languages:** JavaScript, C, C++, Python
**Backend Development:** Node.js, Express.js, RESTful API Design (25+ Routes), Middleware, JWT Authentication, Role-Based Access Control
**Databases:** MongoDB (Aggregation, Indexing, Query Optimization across 8+ Collections), MySQL
**Frontend Development:** React.js, Vite.js, Tailwind CSS
**System Design Concepts:** API Architecture, CRUD Operations, MVC Pattern, Secure Routing, Environment Configuration
**Tools & Platforms:** Git, GitHub, Postman, npm, VS Code, Vercel, Render
**Coursework:** Data Structures, DBMS, Operating Systems, Computer Networks, Software Engineering

## Projects

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| **Vyapaar360 – Business Management System for Retail Shops (MERN)** \| 🔗 *GitHub* | **Jan 2026 – Present** |

- Built a full-stack business management platform using MongoDB, Express.js, React.js, and Node.js covering **7 core modules** including billing, inventory, purchases, GST tracking, reports, dashboard, and authentication.
- Designed and implemented **16 RESTful API routes** with middleware-based protection and role-based access control.
- Created MongoDB aggregation pipelines for generating real-time sales, stock, and purchase analytics in the dashboard.
- Managed **5 MongoDB collections** with indexing and query optimization for efficient data retrieval.
- Implemented automated PDF report generation for billing and sales reports.
- Deployed backend on Render and frontend on Vercel using environment-based configuration.

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| **GadgetHub – MERN Based E-Commerce Platform** \| 🔗 *GitHub* | **June 2025 – Aug 2025** |

- Developed a MERN-based e-commerce platform covering **5 functional modules** including products, cart, orders, admin panel, and authentication.
- Implemented **12 RESTful API routes** for product management, cart operations, order tracking, and authentication.
- Optimized MongoDB queries using indexing, filtering, and pagination for faster product search.
- Integrated Stripe test payment gateway and Cash on Delivery for transaction simulation.
- Designed responsive UI using Tailwind CSS with multiple reusable React components and pages.

## Courses & Certifications

- Oracle Cloud Infrastructure 2025 Certified Developer Professional — 🔗 Certificate Link
- Oracle Cloud Infrastructure 2025 Certified Data Science Professional — 🔗 Certificate Link
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional — 🔗 Certificate Link

## Achievements

- Solved **500+ Data Structures and Algorithms problems** across multiple competitive programming platforms.
- Achieved **1444 highest rating on CodeChef**.
- Maintained **9+ CGPA** consistently till 4th semester.
- Earned **5-Star rating in C++ on HackerRank**.