

# Shrashti Dwivedi

Backend-Focused Software Engineer | AI-Integrated Systems

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## EDUCATION

### Manipal University Jaipur

Sept 2022 – July 2026

B.Tech in Computer Science & Engineering (Hons.) – AI/ML

Jaipur, India

- CGPA: **9.33/10** | Dean's List (Multiple Semesters) | Top 5% of class

## EXPERIENCE

### Server Administration Intern – Merck Group (Sigma Aldrich)

Oct 2025 – Present

Windows Server Administration Team

Bengaluru, India

- Building a **FastAPI** server diagnostics platform using PowerShell and WinRM – automates real-time collection of disk, network, and server health metrics as structured JSON, making production issue diagnosis faster.
- Administered **Active Directory, DNS/DHCP, and Kerberos** authentication across production environments to manage user identity and access control.

### Backend Developer Intern – Techlearn Solutions

June 2025 – Aug 2025

Remote

- Built **8+ RESTful APIs** in Node.js/Express.js with JWT authentication; delivered 5+ features and resolved 15+ bugs across agile sprints.
- Designed modular backend structure so new features could be added independently, reducing risk of breaking existing functionality.

### Web Development Intern – Sopra Steria

May 2025 – July 2025

Remote

- Built a full-stack **MERN** e-commerce app with JWT auth; optimized MongoDB queries to improve API response time on key endpoints.

## PROJECTS

### PromptPulse | Node.js, Express.js, MongoDB, Docker

[GitHub](#)

- Built a secure REST API backend with JWT authentication with refresh tokens, logout invalidation, and role-based access control (RBAC), along with soft delete across **10+ endpoints**.
- Reduced MongoDB query latency by **20–30%** via strategic indexing; containerized with Docker for consistent local and deployment environments.

### Retail Intelligence Copilot | React, AWS Lambda, AWS Bedrock, API Gateway

[Live](#) | [GitHub](#)

- Built a retail analytics tool where users query inventory and demand data in plain English – powered by **AWS Bedrock LLMs** on a serverless AWS backend.
- Selected as **Top Innovator (Solo)** at AI for Bharat Hackathon (AWS); shortlisted for Prototype Development Phase nationally.

### Explain-Like-Didi – AI Educational Assistant | React, Node.js, Gemini API

[Live](#) | [GitHub](#)

- Built for Meesho Hackathon '25 – an AI chatbot with **Google Gemini API** and voice input that explains concepts in simple language; deployed on Vercel with a Node.js backend.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), Python, Java, SQL

**Backend:** Node.js, Express.js, FastAPI, REST APIs, JWT, RBAC, Rate Limiting

**Cloud & DevOps:** AWS (Lambda, API Gateway, Bedrock, Amplify), Docker

**Databases:** MongoDB, MySQL, Redis

**Core CS:** Data Structures & Algorithms, OS, DBMS, Computer Networks, Git

## ACHIEVEMENTS

**Problem Solving:** 100+ problems on [LeetCode](#) (Jan 2026 – Present) | GirlScript Summer of Code 2024 open source contributor

**Certifications:** [Full Stack Development](#), [Python](#), [Machine Learning](#), [Data Analytics](#)