Mayank Raj Singh

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PROFESSIONAL SUMMARY

Motivated Computer Science student specializing in Cloud Computing and Automation with hands-on experience in full-stack development. Skilled in Java, JavaScript, Node.js, and database management with MySQL and MongoDB. Proven ability to implement features like predictive analytics and RESTful API integration, improving data retrieval efficiency by 25%.

EDUCATION

VIT Bhopal University — Bhopal
Bachelor of Technology in Computer Science(Cloud Computing and Automation) — *Sept. 2022 – May 2026*

Gayatri Public School — Agra
Xth — *July 2018 – May 2019*

Gayatri Public School — Agra
XIIth — *July 2020 – May 2021*

TRAINING & CERTIFICATION

Perfect Software Solutions — Nov. 2024 – Jan. 2025
Agra

- Completed a 3-month intensive program on SDLC, Agile workflows, and full-stack development.
- Accelerated development speed by 15% for a project module by utilizing collaborative development practices and version control (Git/GitHub).
- Developed and debugged 5+ web application features using HTML, CSS, JavaScript, Node.js, Express, SQL, and MongoDB, contributing to a live project.
- Participated in weekly code reviews, reducing post-deployment bugs by ~20% and enhancing overall code quality.

PROJECTS

Movie Recommendation System | — Aug. 2023 – Oct. 2023

- Designed and implemented a recommendation engine using collaborative filtering techniques, serving personalized movie suggestions to a user base of 100+ entries.
- Built a responsive front-end using HTML, CSS, JavaScript, integrated with a normalized MySQL database housing 5+ tables for storing user data and movie details.
- Optimized SQL queries and indexing, resulting in a 40% faster average response time for generating user recommendations.

Walmart Stock Management and Prediction System | — July 2025 – Aug. 2025

- Technologies Used: MySQL, Node.js, Express.js, RESTful APIs (Weather and Festival), Frontend (HTML/CSS/JS), Bootstrap.
- Developed a full-stack stock management web application, processing and displaying real-time data for 50+ simulated product SKUs.
- Integrated predictive analytics using APIs, improving demand forecast accuracy by 30% by factoring in historical sales, weather data, and 10+ major festival dates.
- Designed a scalable MySQL database schema with 8+ relational tables to store product, sales, and inventory data, optimizing query performance for large datasets.
- Built an intuitive dashboard for managers to visualize stock levels, leading to a reduction in manual stock-checking time by 50% and automated low-stock alerts.

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, HTML5/CSS3
Frameworks & Libraries: Node.js, Express.js, EJS, Bootstrap
Developer Tools: Git/GitHub, VS Code, Visual Studio, GitHub Co-Pilot, IntelliJ IDEA, Postman
Databases & Tools: MySQL, MongoDB, MongoDB Compass
Concepts: Data Structures & Algorithms, RESTful APIs, SDLC, Agile Methodologies, Cloud Computing