Tumpreet Singh

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Summary

Backend-focused Full Stack Developer with hands-on experience building production-ready MERN and PHP applications. Strong understanding of authentication systems, secure REST APIs, database design, and real-world e-commerce workflows. Currently pursuing an MCA while expanding skills in Data Science and Machine Learning through applied projects.

Education

Master of Computer Applications (MCA) 2025 – 2027 (Ongoing)
Punjab Agricultural University

Bachelor of Computer Applications (BCA) 2022 – 2025
Guru Nanak Dev Engineering College

Technical Skills

Languages: JavaScript, Python, PHP, SQL, Java, C, C++
Backend: Node.js, Express.js, REST APIs, JWT Authentication
Frontend: React (Vite), HTML, CSS, Bootstrap
Databases: MongoDB, MySQL
Tools: Git/GitHub, Postman, MongoDB Atlas
Data Science / ML: Pandas, NumPy, Scikit-learn, EDA, Model Evaluation

Projects

SK Creation — MERN Full Stack Application
React, Node.js, Express, MongoDB

- Built a production-ready MERN application for a women's tailor boutique with secure cookie-based JWT authentication.
- Implemented protected APIs for customer measurements and order requests using middleware-based access control.
- Designed clean MVC backend architecture with scalable route and service separation.
- Developed a modern React (Vite) frontend with elegant UI and form-driven workflows.

VELORA — Full Stack E-Commerce Platform
MERN Stack

- Developed a complete e-commerce system including customer storefront, admin dashboard, and backend APIs.
- Implemented product management, cart flow, order handling, and admin-side product uploads.
- Structured the application into frontend, admin, and backend services for scalability and maintainability.

Glowrate — E-Commerce Web Application
PHP, MySQL, Bootstrap

- Built a full PHP-based e-commerce platform with product browsing, cart, checkout, and order storage.
- Implemented session-based cart management and secure MySQL queries using prepared statements.
- Designed a clean, responsive UI suitable for a beauty and skincare brand.

Loan Prediction System — Data Science Project
Python, Pandas, Scikit-learn

- Performed data cleaning and exploratory data analysis (EDA) on loan datasets.
- Trained and evaluated models including KNN, Random Forest, Decision Tree, and SVM.
- Compared accuracy and performance metrics to identify optimal models.

Relevant Coursework

Database Management Systems, Operating Systems, Artificial Intelligence, Machine Learning Fundamentals