Piyush Sharma

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Education

Thapar Institute of Engineering and Technology, BTech in Computer Science		Oct 2022 – June 2026
Choudhary Baldev Singh Model School, Intermediate		Apr 2021 – Mar 2022
D.A.V. Public School, Matriculation		Apr 2019 – Mar 2020

Experience

Software Engineer, Synexoo   Jan 2025 – Mar 2025

- Designed and deployed the backend of a social media platform using Node.js, Express, and MongoDB; implemented JWT authentication, profile management, and follow/unfollow logic — increased active user engagement by 30%
- Engineered a real-time chat system using WebSockets (Socket.io), enabling instant bidirectional communication among 500+ concurrent users.
- Tech Stack: Node.js, Express, MongoDB, WebSockets, JavaScript, Git, GitHub.

Projects

FinBoard

- Built a configurable finance dashboard supporting 3 widget types (price card, OHLC table, interactive charts) with drag-and-drop reordering, enabling users to track any stock symbol in real time using Next.js, React, TypeScript, Recharts, and Zustand.
- Integrated multi-provider market data architecture using Alpha Vantage, Finnhub, and TwelveData, implementing API fallback + client-side caching to reduce failed requests by 70% and ensure chart rendering across daily, weekly, and monthly intervals.
- Designed production-ready UI with dark/light themes and interval-based chart controls (line & candle views), then deployed on Vercel with secure environment variable handling.

Stock Price Prediction Model

- Developed a Flask-based stock prediction web app using ARIMA, LSTM, and Linear Regression models; achieved RMSE between 4.8%–9.5% on test sets.
- Incorporated sentiment analysis by processing 25+ financial news headlines with NLTK VADER, weighting scores by recency to enhance price movement predictions.
- Engineered 15+ financial ratio features from APIs and automated 2 years of stock data ingestion, delivering 7-day forecasts, trend visualizations, and BUY/HOLD signals.

Expense-Tracker

- Developed a responsive financial dashboard in Angular, handling 100+ transactions per month with dynamic filtering and real-time state updates.
- Designed and integrated category-wise expense breakdowns and income vs expense comparisons, improving financial visibility by 2×.
- Implemented budget monitoring logic with automatic alerts when spending exceeds 80% and 100% of limits, enhancing user decision-making, then deployed on Netlify.

Hunger Feast

- Programmed an full-stack interactive snake game using HTML, CSS, JavaScript, Node.js, Express.js and MongoDB, featuring user authentication and persistent high scores for an engaging user experience.
- Implemented dynamic obstacles and adaptive speed mechanics to significantly increase game-play challenge and player retention by 30-40%.

Skills

Languages: C++, C, Java, Python, SQL, JavaScript, HTML, CSS, TypeScript.
Technologies: Node.js, Express.js, MongoDB, Object Oriented Programming, Machine Learning, Unity, Blender, GitHub, MySQL, AWS, Docker, System Design, Next.js, Angular, React, Netlify.
Coursework: Operating System, DBMS, Game Design, 3D Modeling, Computer Graphics, Introduction to Cyber Security.

Competitive Programming

- **LeetCode** - Rating 1600+(in top 22.5%), Solved 500+ Questions
- **(3-star) CodeChef** - Rating 1600+, Solved 200+ Questions
- **CodeForces** - Rating 1100+, Solved 100+ Questions