


# PREM RAWAT

Full Stack Web Developer

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## Summary

MERN full stack developer experienced in building scalable web applications, secure REST APIs, and optimized database-driven systems. Skilled in authentication, clean architecture, and high-performance UI development.

## Education

<b>Chandigarh University, Chandigarh</b> <i>B.E. in Computer Science</i>	07/2023 – 07/2027 <i>CGPA: 7.85 / 10</i>
<b>B.N. Public School, Faridabad</b> <i>Senior Secondary (XII)</i>	04/2022 – 04/2023 <i>Percentage: 90.6%</i>
<b>B.N. Public School, Faridabad</b> <i>Matriculation (X)</i>	04/2020 – 04/2021 <i>Percentage: 71.2%</i>

## Skills

<b>Frontend:</b> React.js, HTML, CSS, Tailwind	<b>Backend:</b> Node.js, Express.js
<b>Database:</b> MongoDB, MySQL, Mongoose	<b>Libraries:</b> Recoil, Zod, JWT
<b>Version Control:</b> Git, GitHub	<b>Languages:</b> C/C++, JavaScript, Python

## Projects

**MokeMoney** — MERN Stack, JWT, MongoDB, Mongoose 06/2024 – 01/2025

- Implemented secure JWT authentication using localStorage for persistent sessions.
- Added client-side caching to reduce redundant API calls by 70%.
- Used Mongoose atomic transactions ensuring fully consistent wallet transfers.
- Integrated server-side pagination for 10-user pages, reducing DB load by 60%.

**Online-Course-Selling-API** — Node.js, Express.js, MongoDB 08/2025

- Developed backend with JWT authentication, protected routes, and RBAC for admin/user separation.
- Built complete admin panel APIs for creating, updating, validating, and managing course data.
- Implemented user workflows including signup, browsing, purchasing, and content retrieval.

**Huffman & LZW Visualizer** — React.js, JavaScript, Tailwind 01/2025

- Built an interactive visualizer for Huffman Coding and LZW Compression with real-time execution steps.
- Implemented dynamic Huffman tree generation including frequency tables, queues, and code mapping.
- Constructed LZW dictionary expansion showing token creation and sequence matching step-by-step.
- Designed a responsive UI allowing users to input custom data and compare algorithm behavior.

## Certifications

**Full Stack Web Development** — Udemy & Harkirat Singh Cohort 3 (2024)

**Data Structures & Algorithms (DSA)** — CodeHelp Supreme 3.0 (2024)