

# Hem Raj Joshi | Computer Engineer

## Full Stack Developer (MERN)

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### Professional Summary

**Computer Engineering graduate** with a strong foundation in CS fundamentals like Data Structures, Algorithms, and OOP. Specialized in **Full Stack Development** using the MERN Stack to build scalable web applications. Proficient in designing secure RESTful APIs and responsive user interfaces. Passionate about writing clean, maintainable code and eager to join an engineering team to contribute to innovative software solutions.

### Technical Skills

- 🔧 **Languages & Core:** JavaScript (ES6+), TypeScript, Java (OOP), C++, SQL, HTML5, CSS3.
- 💻 **Frontend Development:** React.js, Next.js, TanStack Query, Redux Toolkit, Tailwind CSS, Responsive Design.
- 🔧 **Backend Development:** Node.js, Express.js, REST API Architecture, JWT Authentication, Middleware Design.
- 🗄 **Databases:** MongoDB (Aggregations/Mongoose), MySQL, PostgreSQL, Database Normalization.
- ⚙ **Engineering & Tools:** Git/GitHub, Docker, VS Code, Postman, Linux, Agile/Scrum.
- 🎓 **Theoretical Foundations:** Data Structures & Algorithms (DSA), DBMS, Operating Systems, Computer Networks, Artificial Intelligence, System Design.

### Key Engineering Projects

- 🌐 **Connect Verse (Social Media Platform)** 🔗 *React, Node.js, MongoDB, TanStack Query*
  - Developed a full-stack social media application allowing users to share posts, follow connections, and interact via likes/comments.
  - Implemented secure **Authentication** using JWT and HttpOnly cookies to protect user sessions and prevent XSS attacks.
  - Leveraged **TanStack Query** for efficient server state management, optimistic updates, and caching to ensure high performance.
  - Integrated **Cloudinary** for optimized image uploads and storage, handling user profile avatars and post media seamlessly.
  - Designed a modern, responsive user interface using **Tailwind CSS** and DaisyUI, ensuring cross-browser compatibility.
- ✍ **Tech Blog Application (Content Management System)** 🔗 *React, Node.js, MongoDB, Context API*
  - Built a dynamic blogging platform featuring a rich-text editor for creating, editing, and publishing technical articles.
  - Architected a centralized state management system using React **Context API** and custom hooks for handling user authentication.
  - Developed a secure backend API with **Express.js** middleware for error handling and role-based access control (Admin/User).
  - Implemented a responsive dashboard for authors to manage their posts, enabling CRUD operations with real-time feedback.
- 🍴 **FoodHub (Multi-Platform Food Delivery System)** 🔗 *Java (Android), PHP, MySQL*
  - Engineered a comprehensive system comprising a Native **Android App** for customers and a Web Portal for restaurant admins.
  - Developed the mobile app using **Java** and XML, featuring recycler views for menu browsing and activities for order tracking.
  - Built a robust backend using **PHP and MySQL**, implementing complex SQL queries to manage orders, inventory, and user data.
  - Created a Super Admin dashboard to oversee platform operations, managing restaurant approvals and generating sales reports.

### Education

#### Pokhara University

Bachelor of Computer Engineering, CGPA: 3.35/4.0

Nepal

2021 – 2025

**Core Engineering Modules:** Data Structures & Algorithms, Object-Oriented Software Engineering, DBMS, Computer Networks, Operating Systems, Cloud Computing, System Design, Artificial Intelligence.

### Leadership & Additional Information

- 👥 **Leadership:** Led the development team for the Final Year Project, coordinating tasks using Agile methodologies and ensuring timely delivery.
- 🗣 **Languages:** English (Professional Working Proficiency), Nepali (Native).
- 💡 **Soft Skills:** Technical Documentation, Cross-functional Communication, Analytical Problem-Solving, Adaptability.