Prem Shankar Rai

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Professional Summary:

Full Stack Developer experienced in designing and deploying high-performance web applications, improving system speed and user experience for 100+ users. Skilled in Node.js, React.js, Express.js, and MongoDB, with expertise in REST APIs, cloud platforms, and responsive design. Proven ability to optimize application performance and deliver scalable, efficient solutions.

Education:

Bachelor of Technology (B.Tech) – Computer Science & Engineering ,PSN College of Engineering and Technology , Tirunelveli

Technical Skills:

- **Languages:** JavaScript (ES6+), HTML5, CSS3, SQL
- **Frontend:** React.js, Tailwind CSS, Responsive Web Design
- **Backend:** Node.js, Express.js, RESTful APIs
- **Databases:** MongoDB, MySQL
- **Cloud & DevOps:** AWS (EC2, S3, Lambda basics), Git, GitHub, GitHub Pages
- **Tools:** Postman, Figma (UI & UX)
- **Other:** SEO Fundamentals, Deployment, File Handling (fs/promises)
- **Languages Known:** Hindi, English, Basic Tamil

Professional Experience:

Full Stack Developer – Projects & Training, Duration: November, 2023– Present

Full Stack Development Intern (April 2025 to May 2025)
- Built and optimized a full-stack web app with Node.js, Express.js, React.js, and MongoDB, improving response time by 30%.
- Gained hands-on experience in **REST APIs, database management, and responsive UI design**.

Backend Development (Node.js & Express.js):
- Designed and implemented RESTful APIs with secure authentication and CRUD operations.
- Integrated MongoDB and MySQL for scalable data management.
- Developed middleware for logging, authentication, and error handling.
- Optimized server performance and handled file operations using fs/promises.
- Deployed applications using AWS EC2, S3, and GitHub Pages.

Frontend Development (React.js & JavaScript):
- Built responsive user interfaces using React.js, HTML, CSS, and Tailwind CSS.
- Integrated APIs for dynamic content rendering and seamless user experience.
- Created reusable components and managed application state effectively.
- Applied SEO best practices to improve application visibility.

Projects:

Smart College Library Management System
- Smart College Library Management System – Developed a Smart College Library Management System that improved book search efficiency by 40% through department & box filtering.
- Added book summaries & release date tracking with a user-friendly interface using **React.js, Express.js, and MongoDB.**

My Drive Storage for Local Network
- Built a cloud-like storage system for file upload, download, and sharing within the same network.
- Implemented secure access & efficient file handling using **React, Node.js & Express.js**.