

Shivcharan Prasad Barai

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Professional Summary

Dynamic Full-Stack Developer with hands-on experience in designing, developing, and deploying scalable web applications. Proficient in the MERN stack, with additional expertise in AWS, Docker, and CI/CD pipelines. Successfully enhanced system performance and streamlined development processes in a professional internship. Passionate about solving complex problems and delivering high-quality software solutions.

Technical Skills

- Programming Languages:** JavaScript (ES6+), Python, HTML5, CSS3
- Frontend Technologies:** React.js, Redux, Bootstrap, Tailwind CSS
- Backend Technologies:** Node.js, Express.js, RESTful APIs, WebSockets
- Databases:** MongoDB, Mongoose, MySQL
- Tools and Platforms:** Git, Docker, Kubernetes, Postman, JWT Authentication, AWS (S3, EC2, Lambda)
- Development Practices:** Agile Methodology, Test-Driven Development (TDD), CI/CD, Version Control
- Soft Skills:** Analytical Thinking, Effective Communication, Team Collaboration

Education

Bachelor of Science in Computer Science and Information Technology (BSc. CSIT)
Tribhuvan University, Nepal September 2019 – August 2024
Relevant Coursework: Web Development, Data Structures, Software Engineering, Database Systems, Artificial Intelligence, Cloud Computing

Work Experience

Web Development Intern Swastik IT Solutions, Bhairahwa, Nepal
June 2024 – September 2024

- Developed responsive web pages using React.js, improving user engagement by 25
- Designed and implemented scalable RESTful APIs with Node.js and Express.js, reducing API response time by 30
- Optimized MongoDB schemas, enhancing database query performance by 20
- Automated deployment pipelines with Docker and AWS, reducing application downtime by 40

- Collaborated in an Agile team, ensuring timely delivery of project milestones and addressing client feedback.
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Projects

Book Store Application

[GitHub Repository](#)

Developed a full-stack e-commerce platform using the MERN stack with features like JWT authentication, shopping cart functionality, and order management. Integrated AWS S3 for media storage and implemented CI/CD pipelines for seamless deployment.

GymBody Calculator

[GitHub Repository](#)

Built a fitness application to track exercise progress and BMI using React.js for the front end and Node.js for the back end. Incorporated responsive design and real-time data updates using WebSockets, improving user retention.

To-Do List App

[GitHub Repository](#)

Developed a task manager with role-based access control and real-time updates through RESTful APIs. Enhanced user experience with advanced sorting, filtering, and collaborative features using WebSockets.

Certifications

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| • C++ Programming | August 2021 |
| • Python Data Structures | May 2023 |
| • React and Redux | May 2024 |
| • JavaScript | January 2024 |
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Hobbies & Interests

- Exploring emerging web technologies and frameworks
- Writing technical blogs on full-stack development
- Contributing to open-source projects