

Mohan Bahadur Karki

MERN Stack Developer || DevOps Engineer

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Summary

MERN Stack Developer & DevOps Engineer skilled in building scalable web apps and deploying them with cloud-native DevOps tools. Experienced with React, Node.js, MongoDB, Docker, Kubernetes, Terraform, and CI/CD for automation and performance.

Skills and Technologies:

- **Frontend:** React.js, HTML, CSS, JavaScript, TypeScript, Redux, Responsive Design
 - **Backend:** Node.js, Express.js, RESTful API, Authentication, Authorization
 - **Database:** MongoDB
 - **Version Control:** Git, GitHub
 - **CI/CD & DevOps Tools:** Jenkins, GitHub Actions
 - **Containerization & Orchestration:** Docker, Kubernetes
 - **Infrastructure as Code:** Terraform, OpenTofu
 - **Monitoring & Logging:** Grafana, Prometheus
 - **Cloud Platforms:** AWS
 - **Tools:** Postman, NGINX, Webpack, Babel, Yaml, Bash
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Education

Bachelor's in Computer Engineering

Nepal College of Information & Technology
Pokhara University, Balkumari (Ongoing)

MERN Stack Experience

- Developed full-stack web applications using React.js, Node.js, Express.js, and MongoDB.
- Built dynamic and responsive UIs with React.js, implementing state management and functional components.
- Created and optimized RESTful APIs with Express.js, ensuring smooth data flow between front-end and back-end.
- Integrated MongoDB for data storage,
- Integrated Socket.io for Real time communication.

PROJECTS

1) Chatty – MERN Stack Chat App



Developed a real-time chat application using React, Node.js, Express.js, MongoDB, and Socket.io.

Integrated real-time messaging features with persistent data storage for user conversations.

Tools & Technologies used: MERN stack, socket.io

2) E-commerce Website (MERN Stack)



Built a full-fledged e-commerce platform with role-based authentication (Admin, Staff, Customer).

Integrated with payment systems, product management, and customer features, along with CI/CD for automated deployments.

Tools & Technologies used: MERN stack, typescript,

3) Vote-for-Rights – (Backend) Voting Application



Created a voting platform with secure user authentication and real-time vote tracking.

Designed an efficient backend to manage user roles, voting processes, and results.

Tools & Technologies used: express js, nodejs

4) DevOps Project

Designed CI/CD pipelines for automated app deployments.

Deployed containerized applications using Kubernetes.

Provisioned infrastructure using Terraform and OpenTofu.

Set up monitoring with Prometheus and Grafana.

Tech: Docker, Kubernetes, Jenkins, Terraform, AWS

5) Portfolio Website



My portfolio showcases my projects and skills as a MERN Stack Developer and DevOps Engineer, demonstrating expertise in web development, automation, cloud technologies, and building scalable, high-performance applications

Tools & Technologies used: Html, CSS and JavaScript

CERTIFICATION

- **MERN Stack Development** – Broadway Institute
- **Practical DevOps Training (12 Weeks)** – Presidential college -NAS IT
- **ProCoder JavaScript Certification**