

BINAY SHRESTHA

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SKILLS

- Python, Javascript (React JS, Express JS , Node JS), Git, SQL, C++, Typescript, SCSS, GraphQL
- Docker, AWS, Frontend, Backend, Agile, CI/CD, LLM, Microservices, Redis, NGINX, Websockets

WORK EXPERIENCE

Codniv Innovations: *Software engineer*

Jun 2022 – Present

- Developed and maintained scalable web applications using React.js and Node.js for both frontend and backend services. Add at numbers to the impact, use active languages and mention specifics like the languages used.
- Managed and optimized databases with PostgreSQL, including query optimization and schema design for better performance.
- Implemented a caching strategy using Redis with Node.js, leading to a 40% improvement in API response times.

Codniv Innovations: *Full-Stack Engineering Intern*

Mar 2022 – May 2022

- Contributed to both frontend and backend development across multiple projects, gaining hands-on experience with full-stack web application development.
- Assisted in deploying web applications to cloud environments, learning best practices in version control, CI/CD pipelines, and server management.
- Participated in code reviews and collaborated with cross-functional teams to refine project requirements and improve overall application performance.

PROJECTS

Scalable Real-Time Chat Application: Developed a real-time chat application optimized for high traffic and user engagement. Scaled socket connections using Redis across multiple servers hosted on AWS EC2, ensuring low latency and high availability.

Task Management System: Developed an on-site job management system to streamline operations, from ticket creation to project management and invoicing, for service-based businesses. Integrated AWS S3 for secure storage of resumes and documents, ensuring data accessibility and compliance with privacy regulations.

Attack Surface Management: Developed a comprehensive Attack Surface Management system that identifies and displays vulnerabilities within an organization's infrastructure. The system provides actionable preventive measures to mitigate potential threats. Integrated with Slack, Discord, and Telegram to facilitate seamless communication, enabling the automated transfer of reports and analyzed data to relevant teams.

CERTIFICATIONS

Front-End Web UI Frameworks and Tools (**Coursera**)

IBM Backend-End Development (**Coursera**)

EDUCATION

Tribhuvan University || Kathmandu, Nepal

Nov 2019– Aug 2024

Bachelor in computer science and information technology

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Machine Organization and Programming, Artificial Intelligence, Mobile App Development, Software Engineering, User Experience/User Interfaces, Object-Oriented Programming