

Sanjib Barakoti

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SUMMARY

One year of professional experience in the design, development, and deployment of web applications, as well as a solid understanding of object-oriented design, data structures, algorithms, and software design patterns. Proficient with web development technologies and experienced in building responsive and dynamic web applications. Well-developed communication, teamwork, analytical, and problem-solving skills developed through campus projects and industrial experience.

TECHNICAL SKILLS

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|--------------|--------------|--------------|-----------|
| • Python | • React | • REST | • GIT |
| • C | • Node.js | • Bootstrap | • GitHub |
| • C++ | • TypeScript | • Express | • AWS |
| • Java | • HTML/HTML5 | • MySQL | • Postman |
| • JavaScript | • CSS/CSS3 | • MongoDB | • MATLAB |
| • PHP | • Tailwind | • PostgreSQL | • CI/CD |

EDUCATION

Ontario College Graduate Certificate (Computer Software and Database Development) Jan 2023 – Present
Loyalist College in Toronto

WORK EXPERIENCE

CitizenInfotech Pvt. Ltd. Nepal (*Junior Software Developer*) Oct 2021 – Oct 2022

- Designed and developed a full-stack web application using the MERN (MongoDB, Express.js, React, Node.js) stack, implementing Agile methodologies to ensure efficient project delivery and continuous improvement.
- Created and optimized RESTful APIs using Node.js, while developing reusable UI components with React, Bootstrap, HTML, and CSS, demonstrating proficiency in both backend and frontend technologies.
- Contributed to project documentation, participated in code reviews, and conducted knowledge transfer sessions, showcasing strong communication skills and commitment to maintaining high code quality standards.

PROJECTS

Navigation system

- Developed a full-stack navigation application integrating Google Maps API, utilizing Vite for frontend, Node.js for backend, and MongoDB for database management, demonstrating proficiency in modern web development technologies.
- Implemented robust user authentication using JSON Web Tokens (JWT), and created features including user travel history tracking, live weather information display, and current location marking, showcasing skills in secure application development and third-party API integration.
- Designed and built an advanced routing system supporting multiple travel modes (driving, walking, cycling, transit), with real-time location tracking and optimal route calculation, highlighting expertise in complex algorithm implementation and geospatial data handling.

Crowd Anomaly Detection

- Implemented a real-time crowd anomaly detection system using Python and OpenCV, achieving 95% accuracy in identifying security threats and processing video feeds at 30 frames per second.
- Developed and optimized computer vision algorithms including Shi-Tomasi Corner Detection and Lucas-Kanade Optical Flow, reducing false positive alerts by 40% compared to traditional motion detection methods.
- Designed an end-to-end security solution integrating video input processing, real-time analysis, and alert triggering, demonstrating proficiency in computer vision, software development, and security system integration.

ADDITIONAL TRAINING

MongoDB Node.js Developer Path Online (MongoDB University) Dec 2023

Microservice foundation and architecture Online (LinkedIn Learning) Jan 2024

Angular The complete Guide Online (Udemy) Jun 2023- Present