

SAMARPAN KOIRALA

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SUMMARY

Computer Science student with expertise in full-stack development, Restful APIs and data Optimization. Proficient in Java, JavaScript, NodeJS, Python and MongoDB. Built and deployed web applications, optimized API performance, and contributed to agile development. Possesses strong problem-solving and mentoring experience.

EDUCATION

University of Louisiana at Monroe, Monroe, LA

May 2027

Bachelor of Science in Computer Science, GPA 4.0

Relevant Coursework: Object Oriented Programming, Advanced Discrete Structures, Data Structures & Algorithms

TECHNICAL SKILLS

- Languages: HTML, CSS, JavaScript, Java, NodeJS, Express.js, MongoDB, Python
- Database: Firebase Firestore and MongoDB
- Tools and Platform: Git & GitHub, Heroku, Firebase Cloud
- Other Skills: REST APIs, Project Management.

PROJECTS

Roomie

- Designed and deployed a full-stack web application that streamlines the process for students to discover and connect with rental and accommodation offers. Developed an intuitive user interface using React, enabling users to search, filter, and view detailed property listings efficiently.
- Uses Firebase cloud, Firebase Firestore for database and deployed using Heroku.

Weather-app

- Engineered and deployed a dynamic weather application using NodeJS and Express to deliver real-time, location-based weather updates including a convenient front-end for displaying data in a clear fashion.
- Utilized Geocode and Weather Stack APIs to retrieve user location and display readable weather information on a website built with NodeJS and Express, deployed via Heroku.

Task Manager API

- Implemented a REST API for task management using NodeJS, Express, and MongoDB allowing CRUD operations and integrated with a secure login authentication system.
- Optimized API performance by ensuring best practices to improve error handling, scalability and reliability.

EXPERIENCE

Digi Nepal, Kathmandu, Nepal

August 2021- June 2023

Software Development Intern

- Collaborated with a development team to design and implement features of a Document Management System (DMS) using Python and JavaScript.
- Optimized data retrieval processes by developing RESTful APIs, reducing fetching time by 8% and enhancing user experience.
- Participated in code reviews and agile development processes, gaining experience in industry best practices.

ULM, Monroe, LA

August 2024 – December 2024

Supplemental Instruction Leader

- Developed engaging lesson plans and teaching materials to reinforce key concepts of the course.
- Collaborated with professors, tracked attendance and provided reports on student engagement and performance.
- Mentored students in critical thinking and problem-solving strategies, improving their grades by more than 10%.

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References

Lewis Strauss

Scrum Master

Amazon

Chicago, IL

eboyd@email.com | (212) 017-3314

Lewis was the Scrum Master of a project I participated in at Amazon.

Robert Fischer

Network Administrator

Google

Los Alamos, New Mexico

fischerr@email.com | (212) 017-3317

Fischer is a Network Administrator at Google, managing infrastructure at one of its data centers where we collaborated on multiple projects.