

# Samarpan Koirala

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## EDUCATION

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### University of Louisiana at Monroe

Monroe, LA

*Bachelor of Science in Computer Science; GPA: 3.963/4.0*

*Aug. 2023 – May 2027*

- Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Database Management Systems

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript, Python, Golang, SQL

**Frameworks & Libraries:** Node.js, Express.js, React, React Native, NextJs

**Databases:** MongoDB, PostgreSQL, Firebase Firestore

**Tools & Technologies:** Git, GitHub, Heroku, Firebase Cloud, RESTful Web Services, Kubernetes, Docker

**Core Competencies:** Full-Stack Development, API Design & Optimization, Problem-Solving, Technical Mentoring

## EXPERIENCE

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### Supplemental Instruction Leader

Aug. 2024 – Dec. 2024

*University of Louisiana at Monroe*

*Monroe, LA*

- Developed comprehensive lesson plans and teaching materials to reinforce course concepts for 30+ students
- Collaborated with faculty to track attendance and generated reports on student engagement and performance
- Mentored students in critical thinking, and problem-solving strategies improving average grades by 10%

## PROJECTS

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### ZorbaHealth | *Golang, gRPC, RabbitMQ, Kubernetes, Docker, tilt* | [github.com/KoiralaSam/ZorbaHealth](https://github.com/KoiralaSam/ZorbaHealth) 2026

- Architected a full-stack smart scheduling platform with TypeScript frontend and Go backend, enabling intelligent appointment management
- Implemented PostgreSQL database with advanced scheduling algorithms and query optimization for efficient time-slot management
- Built distributed job scheduling system using Go microservices architecture, ensuring reliable notification delivery
- Developed RESTful APIs with type-safe interfaces enabling seamless frontend-backend communication and data consistency

### Remindly | *TypeScript, Golang, PostgreSQL, SendGrid, React, goCron* | [remindly.samarpankoirala.tech](https://remindly.samarpankoirala.tech) 2025

- Architected and deployed a full-stack web application facilitating book discovery and promoting sustainable reuse.
- Developed scalable Express.js backend with optimized RESTful APIs to handle data-intensive operations, reducing response time by 35%
- Implemented MongoDB for efficient data storage and retrieval, managing 500+ book listings with complex queries
- Deployed production application on Heroku with CI/CD pipeline ensuring 99% uptime and seamless user accessibility

### BookShare | *React, Express.js, MongoDB, Node.js* | [github.com/KoiralaSam/BookShare](https://github.com/KoiralaSam/BookShare) 2024

- Architected and deployed full-stack web application facilitating book discovery for ULM Hawkathon 2024
- Engineered React-based frontend with search algorithms, filtering, and recommendation features
- Developed go backend with optimized RESTful APIs to handle data-intensive operations
- Deployed production application on Heroku to ensure high uptime

## CERTIFICATIONS

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**CCNA: Introduction to Networks** – Cisco Networking Academy