

# SUJAN DHAKAL

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## Education

University of Louisiana Monroe

Expected Graduation Date: December 2025

**Relevant Course Work:** Introduction to Computer Programming, Intermediate Programming, Applied Data Structures, Analysis of Algorithm, Object-Oriented Design and Programming, Database Management Systems, Computer Architecture, Operating Systems, Information Security Practice, Organization of Programming Languages

**Additional Courses:** AWS Academy Cloud Foundation, CS50's Introduction to Artificial Intelligence with Python

## Skills

**Languages:** Python, JavaScript, TypeScript, Java, SQL, HTML5, CSS3, Bootstrap 5, SQL

**Tools & Frameworks:** React JS, Node JS, Next JS, Git, Spring Boot, Firebase, Postman, AWS, Figma

## Experiences & Leadership

The MangoByte (Kathmandu, Nepal)

- Authored detailed design documentation, testing notes, and experiment protocols to guide the development of a robust database management system.
- Streamlined the **UI**, enhancing product experience and reducing friction for users to retrieve data.
- Implemented changes using **SQL**, adhering to company’s code review process and industry-leading coding practices.
- Developed comprehensive **API documentation** to enable seamless interaction between the frontend and backend of the system.

**Skills:** React JS (Typescript), AWS, SQL, Git, Program Management, Group Collaboration, Agile Methodology

Teaching Assistant – University of Louisiana Monroe

- Introduced **38** freshman to **Python programming** comprising basic coding, debugging, and data structures.
- Helped professor by providing support during lab sessions, holding office hours, and counseling students.

**Skills:** Python, Public Speaking, One-on-one interaction

IT HELP DESK – University of Louisiana Monroe

- Provided technical support to students, faculty, and staff, resolving hardware and software issues efficiently and effectively.
  - Collaborated with IT team members to improve service delivery and implement new technology solutions.
  - Educated users on best practices for IT security, data protection, and effective use of university technology resources.
- Skills:** Customer Support, Networking systems and solutions, Computer Hardware and Software

## Projects

MinesweeperAI | [GitHub](#) | -- Python, pygame

- Developed a Minesweeper game with a preset number of mines and AI-powered gameplay assistance.
- Implemented an AI model to make educated moves by leveraging a knowledge base for strategic decision-making.
- Enhanced gameplay with an AI-driven approach to improve user experience through intelligent and adaptive move. Designed AI fallback mechanism for random guessing in scenarios lacking sufficient data for calculated moves.

Cozy Mart | [Website](#) | -- React JS, Node JS

- Worked in a team of 3 to design, develop, and deploy a full-stack web application for a furniture sales business.
- Engineered a responsive user interface, cross-browser compatibility and mobile responsiveness, implementing features such as product listings, product description and ensuring cross-browser compatibility and mobile responsiveness.
- Effectively sold furniture through the ecommerce site, driving business growth and demonstrating the effectiveness of the web application.

Student Database | [GitHub](#) | -- Java, Spring boot, PostgreSQL

- Developed a backend database system for efficient data management and retrieval. Optimized entity relationships and data mapping for improved database performance and data integrity.
- Configured **JPA annotations** to automate **ORM**, reducing boilerplate code and enhancing readability.
- Implemented **CRUD operations** and RESTful APIs to facilitate seamless interaction between the database and frontend. Applied **PostgreSQL indexing** and query optimization techniques to improve data retrieval speed and system scalability.

