

BISHWO DAHAL

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EDUCATION

UNIVERSITY OF LOUISIANA AT MONROE - Monroe, USA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (3.94/4.0)

Aug 2022 - May 2026

RELEVANT COURSE WORK: Data Structure and Algorithms(Java), Calculus I, Advanced Discrete Mathematics, Internet Programming, Analysis of Algorithms, Computer Networks and Data Communication, Computer Information Security Management

SKILLS

HTML, CSS, JavaScript, Node.js, Vue.js, C++, Java, Python, Git/GitHub, CI/CD, Postman, Docker, Linux, AWS

EXPERIENCE

OAK RIDGE NATIONAL LABORATORY - Oak ridge, TN, USA

RESEARCH INTERN

May 2024 - present

- Develop and implement container solutions in High Performance Computing (HPC) facilities from OLCF systems including Frontier, summit, and crusher.
- Utilized container build tools (Apptainer, Podman) and runtime software, enhancing portability across various OLCF systems.

NEPAL EX PARCELS & LOGISTICS - Sinamangal, Kathmandu, Nepal

LEAD SOFTWARE ENGINEER

Aug 2019 -Sep 2022

- Developed an analytical software solution using **agile methodology** and **Object-Oriented Programming**, capable of analyzing customer data resulting in a noteworthy **30%** improvement in efficiency.
- Collaborated and led a proficient team **comprising 4 software developers** and designers while concurrently engaging in strategic planning and project management discussions with the company's board members.
- Implemented a **Git-based** version tracking system to facilitate precise project monitoring, automation, and quality control.

PROJECTS

NEPSE ANALYSIS | [GitHub](#) | - HTML, CSS, JavaScript, Nodejs, MYSQL, Git

- Created an advanced stock analysis tool rooted in historical stock price patterns, enabling the calculation of technical indicators based on past stock price fluctuation resulting in an impressive **45%** increase in predictive accuracy.
- Seamlessly **integrated interactive charts** and visually appealing user interface in front-end, providing comprehensive insights into trade patterns, positions, and future stock prediction derived from extensive historical stock data.
- Developed and implemented robust backend logic and **REST APIs** with the capability to import data from Excel spreadsheets, efficiently managing and organizing data across **4 SQL databases**, reducing data retrieval times by up to **50%**.

WORD SUGGESTIONS | [GitHub](#) | - C++, JavaScript, Text Analysis, Git

- Developed a sophisticated word analysis tool in C++ and JavaScript, "Auto-suggestions" capable of swiftly identifying and offering the closest correct word suggestions for misspelled words.
- Parsed a file containing ten thousand lines with remarkable efficiency, achieving a memory footprint of less than **840 kilobytes**, demonstrating exceptional resource optimization.
- Employed **advanced data structures, algorithms**, and precisely crafted **lambda functions** to optimize the compilation process and minimize memory footprint, achieving a lightning-fast response time of under **5 milliseconds**.

COMMAND LINE FILE MANAGER | [GitHub](#) | - C++, cmd, Git

- Engineered a command-line utility in C++, addressing a gap in Window's command-line functionality, empowering users to **effortlessly manage files** inside a command line.
- Pioneered crucial features including the ability to generate multiple files, open multiple files at once, offer modifications with files, and provide descriptions of files in tabular format.

ACTIVITIES

GDSC-ULM – Google Developer Student Club, ULM, Monroe, LA

PRESIDENT

Aug 2023 -Jun 2024

- Managed a **core team of 6** dedicated members, ensuring effective collaboration and harmony among the team.
- Established and maintained robust communication with the university, and sponsors, enhancing transparency and engagement.
- Organized a total of 15 events** throughout a period of one and a half years in collaboration with esteemed partners including Google, Lumen, IBM, and DXC Interns.

SEQUELIZE ORM – Open-source Project

CONTRIBUTOR

Mar 2021 - May 2022

- Served as an **Issue Reviewer** for the esteemed Sequelize project and held the role of managing documentation on sequelize.org while testing the code for quality assurance.
- Collaborated seamlessly with **developers from across the globe**, providing exposure to diverse coding styles and practices.