

BISHWO DAHAL

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EDUCATION

UNIVERSITY OF LOUISIANA AT MONROE - Monroe, USA

Aug 2022 - June 2026

Bachelor Of Science In Computer Science GPA: 3.96/4.0

SKILLS

Languages: C++, JavaScript, Java, Python

Technologies & Tools: Node.js, VueJS, PyTorch, Git, GitHub, CI/CD, Postman, Apptainer, Docker, Linux, AWS, OOP, Ruby on Rails

EXPERIENCE

OAK RIDGE LEADERSHIP FACILITY(OLCF) AT OAK RIDGE NATIONAL LABORATORY - Oak Ridge, TN, USA

SOFTWARE INTERN

Sep 2024 - present

- Developing **supercomputer job simulation program** named, "Emu" using rails and PostgreSQL, designed to educate interns and students on supercomputer architecture and operational mechanisms.
- Collaborating closely with mentors and team members through ORNL internal group projects including **myOLCF website**.

RESEARCH INTERN | [GitHub](#)

May 2024 - Aug 2024

- Implemented container solutions utilizing **Apptainer enhancing portability** across various OLCF systems (i.e. Frontier and Odo).
- Improved the runtime efficiency of a PyTorch model to **60%** by transitioning from bare metal single node to containerized solutions utilizing multiple nodes and GPUs.
- Ported GPU tests from Frontier to Odo and utilized **Git-based** version tracking system to facilitate precise project monitoring, integration, and quality control.

NEPAL EX PARCELS & LOGISTICS - Sinamangal, Kathmandu, Nepal

LEAD SOFTWARE ENGINEER

Aug 2019 -Sep 2022

- Developed an analytical software solution using **Agile methodology** resulting in **30% improvements** in customer data analytics.
- Led a team of **4 software developers** and designers.
- Engaged in strategic planning and project management **discussions with the company's board members**.

PROJECTS

NEPSE ANALYSIS | [GitHub](#)

- Created a stock analysis tool rooted in historical stock price patterns, enabling the calculation of technical indicators based on past stock price fluctuation resulting in **45% increase** in predictive accuracy.
- Constructed **Graphical User Interface** with **interactive charts** using front-end libraries for analyzing trade patterns.
- Developed and implemented backend logic and **REST APIs** to manage data across **4 MYSQL databases**, reducing data retrieval times by up to **50%**.

WORD SUGGESTIONS | [GitHub](#)

- Developed a word analysis tool in C++ and JavaScript, "Auto-suggestions" capable of identifying misspelled words and suggesting the closest correct word suggestions.
- Employed **advanced data structures, algorithms**, and precisely crafted **lambda functions** to optimize the compilation process and minimize memory footprint.

COMMAND LINE FILE MANAGER | [GitHub](#)

- Engineered a command-line utility in C++, addressing a gap in Windows's command-line functionality, allowing users to **generate, open, and modify multiple files** at once inside a command line.

ACTIVITIES

GDSC-ULM - Google Developer Students Club, ULM, Monroe, LA

GDSC LEAD

Aug 2023 - Aug 2024

- Successfully hosted the **first ever hackathon** along with **15 events** in partnership with DXC, IBM, and Google.
- Managed a **team of 6 members**, ensuring effective collaboration within the team, university, and sponsors.

SEQUELIZE ORM - Open source Project

CONTRIBUTOR

Mar 2021 - May 2022

- Served as an **Issue Reviewer** for the Sequelize project and **managed documentation for sequelize.org**.

PUBLICATION

Dahal, Bishwo, Abraham, Subil, & Maccarthy, Elijah. (Dr). **Performance Evaluation of Containerized ML Models on Frontier/Odo. in preparation.**