# DINAL DHOLIYA

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## EDUCATION

**University at Buffalo, The State University of New York**                          Expected: June 2025

Bachelor of Science in Computer Science | GPA: 3.5/4.0

- Concentration: Software Development**, System Administration** and Distributed Systems| Minor: Mathematics
- Dean's List and International Merit Scholarship Awardee

## SKILLS

**Web Development:** React.js, Node.js, HTML, JavaScript, CSS, Bootstrap

**Databases & Deployment:** MongoDB, Postman, SQL, Docker, AWS, Vercel

**Programming Languages:** Python, Java, C, Go, C++, JavaScript, System Verilog, MIPS

**Other Tools:** GitHub, Unix/Linux, FreeBSD, MS Office Suite

**Core Concepts:** Distributed Systems, Machine Learning, Agile Development, Data Structures, Software Engineering

## WORK EXPERIENCE

**Undergraduate Researcher,** CPI-NS Lab, *University at Buffalo*                          Jan. 2024 – Present

- Contributing to the Systems Research Validation project by understanding and recreating evaluation experiments for advanced system prototypes.
- Generating performance metrics and automating graph generation for comprehensive **data analysis** using customized scripts.
- Applied UI/UX principles to create intuitive, clean graph interfaces, enhancing the user's ability to interpret data.
- Responsible for developing a system that automatically plots performance graphs from experimental data, streamlining the visualization process with SQL**,** C++, and Python.

**IT Intern,** International Education, *University at Buffalo*                          Jan. 2023 – Present

- Assisting with computer hardware and software installations, upgrades, and troubleshooting.
- Providing technical support to staff and faculty members regarding IT-related issues.
- Attending IT meetings and training sessions to stay, up to date with the latest technologies and trends.
- Assisting with inventory management, including tracking, and organizing IT equipment and supplies.11

**Software Developer Intern,** lathiyaSolutions, *India*                          May 2023 – Sep. 2023

- Built and deployed responsive web apps using **React** and **Next.js**, hosted on **Vercel** for optimized performance.
- Used Vercel's serverless functions for backend API handling, improving app scalability.
- Collaborated with design and development teams, enhancing UI and cross-device compatibility.

## PROJECTS

**Interactive Data Visualization Dashboard** – *React, JavaScript, MongoDB, Cursor*                          June 2024

- Developed a real-time data dashboard displaying interactive charts and metrics, allowing users to filter and analyze data.
- Leveraged **Cursor** to speed up coding in React, generating **MongoDB** queries and component layouts for interactive visuals.
- Connected to **MongoDB** to store and retrieve data efficiently, enabling dynamic updates to the dashboard.

**E-commerce Website Development -** *Java, Spring Boot, Hibernate, MySQL*                          Feb. 2023

- Developed Java-based e-commerce website with user authentication and product management functionalities using Spring Boot.
- Integrated Hibernate ORM with MySQL for efficient data management and retrieval.
- Applied **.NET development** concepts to optimize functionality and scalability.

**Machine Learning for River forecasting** – *Python, PyTorch, TensorFlow*                          Dec. 2022

- Utilize historical data and environmental factors to predict river levels and flow rates.
- Implement algorithms for time series analysis and hydrological modeling.
- Gain practical experience in machine learning techniques while addressing real-world challenges.

## ACTIVITIES

**SEAS Peer Mentor,** *University at Buffalo*.

**Publicity Team Lead**, UB Hacking, University at Buffalo.

**STEM Outreach Coordinator,** *Community Volunteer Program, University at Buffalo.*

**Under 19 National Player: Roll Ball and Rugby,** *India.*