

LOCHAN ACHARYA

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SUMMARY

Experienced Software Development Intern and Teaching Assistant with expertise in web development, backend systems, and databases using **React, Angular, and Vue**. Contributed to software projects at DXC Technology, optimizing code and enhancing system performance. Led as Tech Lead for Google Developer Student Club and managed web platforms for the Nepalese Student Association.

RELEVANT EXPERIENCES

Project Intern | DXC Technology, New Orleans, LA

June 2023 – August 2023

- Assisted in software development projects, **debugging 100+ issues** and **optimizing system performance by 20%**.
- Gained practical experience with **Agile methodologies**, contributing to **10+ sprint cycles** and ensuring timely project delivery.
- Documented workflows and solutions, reducing onboarding time for new developers by **30%**.

Teaching Assistant | University of Louisiana at Monroe, Monroe, LA

August 2024 - Present

- Provided **support for 50+ students** in programming assignments, increasing coursework **comprehension by 25%**.
- Led **10+ discussions** to clarify key programming concepts and improve student engagement.
- Tutored **20+ struggling students**, helping them improve their grades by **15% on average**.

PROJECTS AND COMPETITIONS

Soil Testing and AI Prediction for Crop Yielding

December 2024

- Developed a system utilizing **IoT sensors and AI models (TensorFlow)** to analyze soil conditions and predict crop yield.
- Implemented data analysis techniques to suggest the best crops based on real-time soil and weather data.
- Optimized machine learning algorithms, **improving prediction accuracy by 30%**.

Google Developer Student Club (GDSC) Website

February 2025

- Designed and developed a fully responsive platform for the Google Developer Student Club (GDSC) using **React, Node.js, and Firebase**.
- Integrated an admin panel for event management, allowing authorized users to add, edit, and delete events seamlessly.
- Enhanced user engagement by optimizing mobile and desktop responsiveness, **improving accessibility by 40%**.

Nepalese Student Association (NSA) Website

August 2024

- Led the creation of a comprehensive website for the Nepalese Student Association, improving overall student engagement by **35%** within the first month post-launch.
- Established a secure **membership portal**, facilitating **50+ new sign-ups** in the first month, with **90% of active users** regularly engaging with the platform.
- Successfully managed the website's development timeline and ensured a **100% on-time launch**, coordinating with a team of **3 developers**.

Live Car Parking Application

December 2022

- Developed a **real-time car parking availability concept** using **IR sensor technology** to detect parking space occupancy, creating an interactive prototype with a **toy car and cardboard parking structure**.
- Created a **simple app prototype**, showcasing the potential of integrating IoT devices and sensors into real-world applications for parking management, offering fun insights into technology integration.
- Gained valuable experience in **IoT integration** and **hardware prototyping**, learning how to apply sensor data into practical, interactive demonstrations.

RELEVANT SKILLS

Programming Skills - Java, C#, Python, JavaScript (React, Angular, Vue), CSS, TypeScript

Tools & Technologies - Git, Agile Methodology, Scrum Framework, Testing and Deployment, UI/UX Design

Data & IT Operations - Data Structures, Code Reviews, Databases (Azure, SQL Server, MongoDB, AWS)

Soft Skills - Communication, Collaboration, Problem-Solving, Tutoring, Leadership

EDUCATION

Bachelors of Science in Computer Science

August 2021 – Dec 2025

University of Louisiana at Monroe, Monroe, LA

Relevant Courseworks: Data Structures, Algorithms, Object-Oriented programming, Database management, Calculus, Networking

EXTRACURRICULARS

- Tech Lead, Google Developers Student Club (GDSC), University of Louisiana at Monroe (2023)**
- Web Master, Nepalese Student Association (NSA), University of Louisiana at Monroe (2024)**
- Member, Association for Computing Machinery (ACM)**

CERTIFICATIONS

- AWS Cloud Practitioner** (Amazon Web Services, 2024)
- Cisco Endpoint Security** (Cisco, 2023)
- Agile Foundation** (Udemy, 2023)
- React.js Certification** (LinkedIn Learning, 2023)