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Mahima Dhakal

Computer Engineering Student

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I am an engineering student passionate about uncovering and sharing innovative ideas, with a creative spirit and a curiosity that drives me to explore various fields of knowledge.

SKILLS

Fundamentals of Computer Science	DSA, Software Engineering, DBMS, Operating Systems, Computer Networks, Computer Architecture, Security, Theory of Computation, Distributed Systems
Mathematical Problem Solving	Linear Algebra, Calculus, Probability and Statistics
Data Science Tools	NumPy, Pandas, Matplotlib, PyTorch, Tensorflow, scikit-learn, Seaborn, Keras
Programming Languages and Web Dev Frameworks and Tools	C, C++, Python, Javascript, HTML/CSS, Bootstrap React, Django, Git, Docker, VS Code, Cisco Packet Tracer, Postman, MongoDB, MySQL

PROFESSIONAL EXPERIENCE

Team Lead, Web Scraping <i>Bikash Udhyami, Nepal in Data.</i>	2022
<ul style="list-style-type: none">Led a team in scraping and aggregating data from various governmental websites, enhancing accessibility and analysis of public data on a centralized platform.Implemented and optimized data retrieval, batch processing, and update pipelines, significantly improving efficiency and reliability of data synchronization.	
Trainee, Backend Development <i>UXCam</i>	2023
<ul style="list-style-type: none">Acquired hands-on experience with a diverse set of development tools and technologies, including Jira for project management, Kanji, Redis, Bitbucket, Robo 3T and Docker.Developed and maintained RESTful APIs, gaining proficiency in creating scalable and efficient server-client interactions.Designed and implemented systems using raw SQL queries, demonstrating the ability to work directly with databases without relying on Django's Object-Relational Mapping (ORM), thus enhancing control over database operations and performance optimization.	

EDUCATION

Bachelor in Computer Engineering , TU, IOE, Pulchowk Campus, 83 %	2019-2024
Major in Physics and Mathematics , Tilottama Campus, Butwal, GPA 3.86	2017-2019

SCHOLARSHIPS

B.Sc. in Computer Engineering Pulchowk Campus, Tribhuvan University Distinguished with a rank of 128 among over 12,000 contenders in the IOE Engineering Entrance Examination	2019
One Belt One Road Northwestern Polytechnical University, Xi'an, China Awarded under the auspices of the Nepal-China Silk Road Agreement, recognizing academic excellence and potential for contributing to the engineering field	2019
Golden Jubilee Embassy of India Honored for exceptional academic achievements and potential in engineering, under the India-Nepal diplomatic scholarship program	2019

FELLOWSHIP AND SUMMER SCHOOLS

Scholar <i>National AI School 2023, NAAMII</i> Selected for the prestigious Fourth National Annual School by NAAMII, engaging in a comprehensive 10-day AI program. This included 55 hours of lectures, 18 hours of lab sessions, and 14 hours dedicated to project work and professional development.	2023
WLIT Fellow <i>Bootcamp, Women Leader in Technology</i> Participated in a rigorous 9-month bootcamp with Women Leader in Technology, focusing on Git and GitHub, JavaScript and the MERN stack, alongside workshops on goal setting and leadership along with group projects.	2021

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ACHIEVEMENTS

National award , National Science and technology ministry, Awarded by the then Prime Minister of Nepal	2019
Semifinalist , Hult Prize OnCampus Event, Pulchowk Campus	2019
1st runner up , Ace Ignite 48 hour long hackathon	2019
Winner , Naamche Hack a week under category Digital Health	2023
Winner , 2 days UXCAM Codecamp under Open Category	2023

LEADERSHIP ROLES

Creative Director <i>LOCUS</i>	2023/24
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- Spearheaded the creative team for LOCUS 2024, driving innovative design solutions and content strategies.
- Orchestrated successful initiatives including Girls To Code, CodeCamp, Hack-A-Week, and Technergy, enhancing the impact and reach of LOCUS 2024 within the tech community.

Technical Manager <i>Pulchowk Girls</i>	2023
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- Leading the technical team in organizing events, seminars, workshops and digital media.
- Coordinated in organizing events like "Cyber Crime and its impacts", "Perception of the LGBTQIA+ community", "Women in Engineering", and competitions like video-making competition, online speech competition, and impact marathon.
- Participated in events like conducting surveys regarding problems related to girls and sought solutions in the campus.

Creative Lead <i>PDSC</i>	2022-2023
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- Head of the graphics designing and content writing team in the organization.
- Mentored general members about the basics of designing and its implementations.
- Organized workshops like Blockchain Workshop, Django Workshop, and Python for Automation.

COMMUNITY ENGAGEMENT

Member <i>IEEE Computer Society, Nepal</i>	2023
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- Played a pivotal role in organizing an international conference focused on "Multimedia and its Current Advancements," facilitating global knowledge exchange and networking.
- Collaborated with "SheQual Foundation" to organize a design workshop aimed at empowering girls with design skills in Pulchowk Campus, fostering an inclusive tech community.

Instructor at Software Fellowship <i>LOCUS2024, Pulchowk Campus</i>	2023
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- Led a comprehensive introduction to Python programming for students, covering fundamentals such as functions and control loops, enhancing their coding proficiency.

Software Team Member <i>LOCUS2023</i>	2023
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- Contributed to the frontend development of the LOCUS 2023 certification system, implementing user-friendly interfaces and ensuring a seamless certification process.

Graphics Designer <i>IT Club, Pulchowk Campus</i>	2022
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- Spearheaded the design of creative templates, posters, and pamphlets for various events and workshops, significantly enhancing event visibility and participation.

Hour of Code Instructor, 2022

Akshar Academy

- Facilitated an engaging Hour of Code session for 9th-grade students, introducing them to programming fundamentals and sparking their interest in technology.
- Shared insights on the advancements in AI and technology, providing a motivational learning experience and fostering early interest in tech careers.
- Organized a game development competition using "hourofcode.com," encouraging practical application of programming skills and creative thinking.

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CERTIFICATIONS

- **AWS Academy Graduate - AWS Academy Data Engineering** - Amazon Web Services [View](#)
- **AWS Academy Graduate - AWS Academy Cloud Architecting** - Amazon Web Services [View](#)
- **Supervised Machine Learning: Regression and Classification** - Deeplearning.ai [View](#)
- **Python for Data Science and AI** - IBM and Coursera [View](#)
- **AI For Everyone** - Deeplearning.ai [View](#)

EXPLORATORY LEARNING PROJECTS

Grievance Recognition using Text/Speech Major Project - BE

BERT, TensorFlow, wave2vec, Django

Developed an automated system for classifying text and speech complaints into categories using BERT and wave2vec for processing, and TensorFlow for model development, integrated with a Django web application.

Network Architecture and Configuration of Pulchowk Campus Network Project - BE

Cisco Packet Tracer

Designed and configured Pulchowk Campus's network, employing Cisco Packet Tracer for network design and simulation, focusing on subnetting, VLANs, OSPF, and DHCP for enhanced performance and security.

Drishya 48 hours Ace Ignite Hackathon

TensorFlow Lite, ReactJS, Raspberry Pi, Blender

Smart goggles for assisting visually impaired individuals, utilizing TensorFlow Lite for object detection on a Raspberry Pi, with a ReactJS interface and audio feedback for navigation. Worked on 3D-Design of the glasses and comprehensive E-Commerce website development to sell the product.

Yoggis Minor Project BE

MediaPipe, Scikit-Learn, Django, Python, PostgreSQL

Developed an AI yoga trainer app offering real-time posture feedback and recommendations, leveraging MediaPipe for posture detection and Scikit-Learn for feedback, powered by a Django and PostgreSQL backend.

Maitrika 36 Hours Utech Hackathon

React, Express

Built a platform to connect Female Community Health Volunteers with doctors in remote areas, featuring an intuitive React frontend and an Express backend for event tracking and automated prescription generation.

Ask-Out WLit Fellowship

MERN Stack

Implemented an anonymous Q&A platform for workplace communication, utilizing the MERN stack for a scalable solution that supports anonymous question posting and community interaction.

Message Compression Data Structures and Algorithms

Technologies: Huffman Compression, Queue, Stack, LinkedList; Language: C++

Developed a C++-based messenger application leveraging Huffman Compression for efficient message encoding and decoding which optimizes data storage by compressing messages before they are stored in a database, ensuring minimal storage use and seamlessly decoded, ensuring the end-user receives them in their original form.

Aawaj Object Oriented Programming

C++

Developed a console-based social media application focusing on basic social networking features like account creation and communication, using C++ to implement fundamental programming concepts.

Graphics Project: Rendering a Classroom Computer Graphics

SDL, C++

Rendered a realistic classroom using graphics principles and SDL in C++, applying line drawing algorithms and lighting models to simulate a 3D environment effectively.