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Mahima Dhakal

Software Engineer

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I am a passionate and driven software engineer with a strong interest in creating impactful solutions through computers and technology.

SKILLS

Programming Languages	C, C++, Python, JavaScript, GO
Frameworks and Libraries	React, Express, Django
Programming Tools	Node, Git, Docker, Linux, AWS, Pandas, NumPy, Scikit-learn, TensorFlow
Databases	MySQL, PostgreSQL, MongoDB
Fundamentals of Computer Science	DBMS, OS, Networks and Security, Distributed Systems
Mathematical Problem Solving	Linear Algebra, Calculus, Probability and Statistics

EDUCATION

Bachelor's in Computer Engineering, Tribhuvan University, Institute of Engineering, Pulchowk Campus, 82.44 %	2019-2024
Major in Physics and Mathematics, Tilottama Campus, GPA 3.86	2017-2019

FELLOWSHIP AND SUMMER SCHOOLS

Scholar, National AI School 2023, NAAMII	June 2023
Selected for the prestigious National Annual School by NAAMII, an intensive AI and Machine Learning program where I gained hands-on experience in advanced AI concepts, including deep learning, neural networks, and data science, under the mentorship of global AI experts.	

Fellow, Kathmandu Cohort 2021, Women Leaders in Technology	2021
Selected for a highly competitive 9-month boot camp focused on technical skills and leadership development where I gained expertise in Git and MERN stack. Participated in hands-on projects, including building a hackathon project, completing an Hour of Code, and gaining valuable industry experience during a month-long internship in data science in "Nepal in Data".	

PROFESSIONAL EXPERIENCE

Software Engineer <i>Growthzilla Inc.</i>	April 2024 - Present
<ul style="list-style-type: none">Developed and integrated tools using Cloudflare MCP server and LLMs (e.g., Claude Sonnet) to create an AI-powered assistant aimed to automate dynamic query handling, such as retrieving configuration settings and automatically adjusting system parameters.Integrated accounting software with a salon management system, ensuring smooth synchronization of daily check-ins and sales logs. Developed robust authentication pipelines and data syncing processes with retrieval and error handling mechanisms to ensure data consistency and reliability.Designed and developed automation workflows on the company's dashboard, improving operational efficiency for salon management software.Gained hands-on experience with modern web technologies, including React, Express and SQL databases, enabling the delivery of scalable and high-performing applications.Implemented real-time communication features using web sockets and message-passing protocols, enhancing system interactivity and responsiveness.	
Trainee, Backend Development <i>UXCam</i>	May- July 2023
<ul style="list-style-type: none">Gained hands-on experience with a variety of development tools and technologies.Developed and maintained RESTful APIs, gaining proficiency in creating scalable and efficient server-client interactions in Python.Designed and implemented systems using raw SQL queries, demonstrating the ability to work directly with databases without relying on ORMs and enhancing control over database operations and performance optimization.	

ACHIEVEMENTS

Winner, 2 day UXCAM Codecamp, Open Category	2023
Winner, Naamche Hack a week, Digital Health Category	2023
1st Runner-Up, Ace Ignite 48 hours long hackathon	2022
National award, National Science and Technology Ministry, Awarded by the then Prime Minister of Nepal	2019
Full Scholarship Recipient, Bachelor's in Computer Engineering, Pulchowk Campus	2019
Golden Jubilee Scholarship Recipient, Embassy of India	2019

EXPLORATORY LEARNING PROJECTS

Yoggis <i>MediaPipe, Javascript, Django, Python, PostgreSQL</i> An AI yoga trainer app offering real-time posture feedback and recommendations.	Minor Project - BE
Grievance Recognition using Text/Speech <i>BERT, TensorFlow, wave2vec, Django, Python</i> Automated system for classifying text and speech complaints in Nepali language into categories.	Major Project - BE
Network Architecture and Configuration of Pulchowk Campus <i>Cisco Packet Tracer</i> Designed and configured the network architecture for Pulchowk Campus using Cisco Packet Tracer.	Network Project - BE
Maitrika <i>Javascript, React, Express</i> A platform to digitalize surveys and connect women community health volunteers with physicians in remote areas.	36 Hours Utech Hackathon
Ask-Out <i>MERN Stack</i> An anonymous Q&A platform for seeking technical solutions in a workplace that supports anonymous questions and solutions within a corporate workspace.	WLit Fellowship
Message Compression <i>Huffman Compression, C++</i> A C++-based messenger application using Huffman Compression for efficient message encoding and decoding, which optimizes data storage by compression.	Data Structures and Algorithms

LEADERSHIP ROLES AND COMMUNITY ENGAGEMENT

Creative Director <i>LOCUS 2024</i> <ul style="list-style-type: none">Organized 20th National Technological Festival in Nepal, LOCUS 2024 including pre-events like Girls To Code, CodeCamp, Hack-A-Week, and Technergy.Led the creative team, driving innovative design solutions, photography, videography, and content strategies.Organized children in technology (CIT) in collaboration with WorldLink, largest ISP in Nepal, in all 7 provinces with over 100 schools to promote digital literacy, internet safety, and skills development among students in Nepal.Led and mentored software fellowship, providing instruction and guidance in Python programming.	2023/24
Tech Mentor <i>Women Leaders in Technology</i> <ul style="list-style-type: none">Facilitated advanced JavaScript, Node, and Express sessions in cohort 2025.Organized and mentored participants in a 3-day intensive hackathon, fostering innovation and collaboration.	2025
Software Team Member <i>LOCUS 2023</i> <ul style="list-style-type: none">Contributed to the front-end development of the LOCUS 2023 certification system, implementing user-friendly interfaces ensuring a seamless certification process.	2023
Technical Manager <i>Pulchowk Girls</i> <ul style="list-style-type: none">Lead the technical team in organizing events, seminars, workshops, and digital media.Coordinated various awareness events and workshops, such as 'Women in Engineering' and surveys aimed at empowering and supporting women.	2023

CERTIFICATIONS

AWS Academy Graduate - AWS Academy Data Engineering - Amazon Web Services	View
AWS Academy Graduate - AWS Academy Cloud Architecting - Amazon Web Services	View
Python for Data Science and AI - Coursera	View
Supervised Machine Learning: Regression and Classification - DeepLearning.AI	View