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# Mahima Dhakal

## Software Engineer

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I am a passionate and driven computer engineering graduate trying to create impactful solutions through computers and technology.

## SKILLS

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

## EDUCATION

<b>Bachelor's in Computer Engineering</b>	2019-2024
Tribhuvan University, Institute of Engineering (IOE), Pulchowk Campus, <b>82.44 %</b>	
<b>Major in Physics and Mathematics</b>	2017-2019
Tilottama Campus, <b>GPA 3.86/4</b>	

## PROFESSIONAL EXPERIENCE

<b>Software Engineer</b>	April 2024 - Present
<i>Growthzilla Inc.</i>	

- 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.

<b>Trainee, Backend Development</b>	May- July 2023
<i>UXCam</i>	

- 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.

## FELLOWSHIP AND SUMMER SCHOOLS

<b>Scholar, Fourth National AI School, Nepal Applied Mathematics and Informatics Institute for research</b>	May - June 2023
Selected for the intensive AI and Machine Learning program with hands-on experience in advanced AI concepts, deep learning, neural network architectures, transformers, computer vision, NLP and GNNs, under the mentorship of global AI experts.	

<b>Scholar, Samsung Innovation Campus, Samsung</b>	Dec 2022-March 2023
Completed a comprehensive training program in cutting-edge technologies like AI, Big Data, and Programming in Python organized by Samsung in collaboration with IOE. Developed a Capstone Project during a hackathon addressing social challenges via tech.	

<b>Fellow, Kathmandu Cohort , Women Leaders in Technology</b>	Oct 2021 - Aug 2021
Selected in a highly competitive 9-month boot camp focused on technical and leadership development. Completed an Hour of Code program, and also gained valuable industry experience during a month-long internship in data science in Nepal in Data.	

## ACHIEVEMENTS

<b>Winner</b> , 2 day UXCAM Codecamp, Open Category	Jan 2023
<b>Winner</b> , Naamche Hack a week, Digital Health Category	Jan 2023
<b>1st Runner-Up</b> , Ace Ignite 48 hours long hackathon	Nov 2022
<b>National award</b> , National Science and Technology Ministry, Awarded by the then Prime Minister of Nepal	Sept 2019
<b>Full Scholarship Recipient</b> , Bachelor's in Computer Engineering, Pulchowk Campus	2019-2024
<b>Golden Jubilee Scholarship Recipient</b> , Embassy of India	2019-2024

## EXPLORATORY LEARNING PROJECTS

<b>Yoggis</b> <i>MediaPipe, Javascript, Django, Python, PostgreSQL</i> An AI yoga trainer app offering real-time posture feedback and recommendations.	Minor Project BE
<b>Grievance Recognition using Text/Speech</b> <i>BERT, TensorFlow, wave2vec, Django, Python</i> Automated system for classifying text and speech complaints in Nepali language into categories.	Major Project - BE
<b>Network Architecture and Configuration of Pulchowk Campus</b> <i>Cisco Packet Tracer</i> Designed and configured the network architecture for Pulchowk Campus using Cisco Packet Tracer.	Network Project - BE
<b>Maitrika</b> <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
<b>Ask-Out</b> <i>MERN Stack</i> An anonymous Q&A platform for seeking technical solutions that supports anonymous questions and solutions within a corporate workspace.	WLit Fellowship
<b>Message Compression</b> <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

<b>Creative Director</b> <i>LOCUS 2024</i> <ul style="list-style-type: none"><li>Organized 20th National Technological Festival in Nepal, LOCUS 2024 including pre-events like Girls To Code, CodeCamp, Hack-A-Week, and Technergy.</li><li>Led the creative team, driving innovative design solutions, photography, videography, and content strategies.</li><li>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.</li><li>Led and mentored software fellowship, providing instruction and guidance in Python programming.</li></ul>	2023/24
<b>Tech Mentor</b> <i>Women Leaders in Technology</i> <ul style="list-style-type: none"><li>Facilitated advanced JavaScript, Node, and Express sessions in cohort 2025.</li><li>Organized and mentored participants in a 3-day intensive hackathon, fostering innovation and collaboration.</li></ul>	2025
<b>Software Team Member</b> <i>LOCUS 2023</i> <ul style="list-style-type: none"><li>Contributed to the front-end development of the LOCUS 2023 certification system implementing user-friendly interfaces ensuring a seamless certification process.</li></ul>	2023

## CERTIFICATIONS

• <b>AWS Academy Graduate - AWS Academy Data Engineering</b> -Amazon Web Services	<a href="#">View</a>
• <b>AWS Academy Graduate - AWS Academy Cloud Architecture</b> - Amazon Web Services	<a href="#">View</a>