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# Mahima Dhakal

## Software Engineer

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I am a passionate and driven Software Engineer with a deep interest in solving complex problems through innovative technology. I am excited about uncovering and sharing innovative ideas, with a creative spirit and a mindset for continuous learning that drive me to explore various fields of knowledge.

## SKILLS

<b>Fundamentals of Computer Science</b>	DBMS, Operating Systems, Computer Networks, Security, Distributed Systems
<b>Mathematical Problem Solving</b>	Linear Algebra, Calculus, Probability and Statistics
<b>Programming Languages and Web Dev</b>	C, C++, Python, Javascript
<b>Frameworks and Tools</b>	React, Django, Git, Docker, MongoDB, MySQL, Linux, AWS

## PROFESSIONAL EXPERIENCE

**Software Engineer** 2024  
*Growthzilla Inc.*

- Currently working on the integration of accounting software with the salon management system, ensuring seamless synchronization of daily check-ins and sales logs. Developed robust authentication pipelines, data syncing processes, and retry/error handling mechanisms to ensure data consistency and reliability.
- Contributed to the development of automation workflows in the company's dashboard, improving operational efficiency for salon management software.
- Gained hands-on experience with modern web technologies, including React.js (front end), Express.js (backend), 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.
- Developed module in (Integromat/Make), enabling data integration and extending connectivity with third-party applications.

**Trainee, Backend Development** 2023  
*UXCam*

- Acquired hands-on experience with a diverse set of development tools and technologies, including Docker, Redis, Bitbucket and Robo 3T.
- 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 Django's Object Relational Mapping (ORM), thus enhancing control over database operations and performance optimization.

## EDUCATION

**Bachelor in Computer Engineering**, TU, IOE, Pulchowk Campus, 82.44 % 2019-2024  
**+2 Science**, Tilottama Campus, Butwal, GPA 3.86 2017-2019

## FELLOWSHIP AND SUMMER SCHOOLS

**Scholar** 2023  
*National AI School 2023, NAAMII*

Selected for the prestigious Fourth National Annual School by NAAMII, participated in an intensive 10-day AI and Machine Learning program. Gained hands-on experience in advanced AI concepts, including deep learning, neural networks, and data science, under the mentorship of global AI experts. Engaged in collaborative projects, workshops, and problem-solving sessions, enhancing both technical and practical skills in AI/ML.

**WLIT Fellow** 2021  
*Bootcamp, Women Leader in Technology*

Selected for a highly competitive 9-month bootcamp focused on technical skills and leadership development. Gained expertise in Git and GitHub, advanced JavaScript, Node.js, and the 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. Engaged in leadership and professional development sessions, enhancing both technical and soft skills.

## ACHIEVEMENTS

<b>Winner</b> , 2 days UXCAM Codecamp under Open Category	2023
<b>Winner</b> , Naamche Hack a week under category Digital Health	2023
<b>1st runner up</b> , Ace Ignite 48 hours long hackathon	2022
<b>National award</b> , National Science and technology ministry, Awarded by the then Prime Minister of Nepal	2019
<b>Full Scholarship Recipient</b> , Bachelors in Computer Engineering, Pulchowk Campus	2019
<b>Golden Jubilee Scholarship Recipient</b> , Embassy of India	2019

EXPLORATORY LEARNING PROJECTS

<b>Yoggis</b> <i>MediaPipe, Javascript, Django, Python, PostgreSQL</i> 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.	<b>Minor Project BE</b>
<b>Grievance Recognition using Text/Speech</b> <i>BERT, TensorFlow, wave2vec, Django, Python</i> 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.	<b>Major Project - BE</b>
<b>Network Architecture and Configuration of Pulchowk Campus</b> <i>Cisco Packet Tracer</i> 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.	<b>Network Project - BE</b>
<b>Maitrika</b> <i>Javascript, React, Express</i> 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.	<b>36 Hours Utech Hackathon</b>
<b>Ask-Out</b> <i>MERN Stack</i> 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.	<b>WLit Fellowship</b>
<b>Message Compression</b> <i>Huffman Compression, C++</i> 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.	<b>Data Structures and Algorithms</b>

LEADERSHIP ROLES AND COMMUNITY ENGAGEMENT

<b>Creative Director</b> <i>LOCUS</i> <ul style="list-style-type: none"><li>Spearheaded the creative team for LOCUS 2024, driving innovative design solutions and content strategies, and 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.</li></ul>	<b>2023/24</b>
<b>Technical Manager</b> <i>Pulchowk Girls</i> <ul style="list-style-type: none"><li>Leading the technical team in organizing events, seminars, workshops, and digital media.</li></ul>	<b>2023</b>
<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 and ensuring a seamless certification process.</li></ul>	<b>2023</b>
<b>Hour of Code Instructor, 2022</b> <i>Akshar Academy</i> <ul style="list-style-type: none"><li>Facilitated an engaging Hour-of-Code session for 9th-grade students, introducing them to programming fundamentals , sparking their interest in technology and encouraging practical application of programming skills and creative thinking.</li></ul>	

CERTIFICATIONS

<ul style="list-style-type: none"><li><b>AWS Academy Graduate - AWS Academy Data Engineering</b> -Amazon Web Services</li><li><b>AWS Academy Graduate - AWS Academy Cloud Architecting</b> - Amazon Web Services</li></ul>	<a href="#">View</a> <a href="#">View</a>
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