Mahima Dhakal
Software Engineer

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

SKILLS

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

PROFESSIONAL EXPERIENCE

Software Engineer **2024**
Growthzilla Inc.
- Led the full-stack development and deployment of automation workflows in the Uzeli Dashboard, improving operational efficiency for a 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 a "uzeli" module, enabling data integration with third-party applications (Integromat/Make) and extending connectivity to email marketing platforms like Mailchimp.

Trainee, Backend Development **2023**
UXCam
- Acquired hands-on experience with a diverse set of development tools and technologies, including Jira for project management, Redis, Bitbucket, Robo 3T, and Docker.
- 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, 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.

WLiT Fellow **2021**
Bootcamp, Women Leader in Technology
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.

ACHIEVEMENTS

Full Scholarship Recipient, Bachelors in Computer Engineering, Pulchowk Campus	2019
Golden Jubilee Scholarship Recipient, Embassy of India	2019
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

EXPLORATORY LEARNING PROJECTS

Maitrika **36 Hours Utech Hackathon**
Javascript, 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.

Yoggis   **Minor Project BE**
MediaPipe, Javascript, 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.

Grievance Recognition using Text/Speech   **Major Project - BE**
BERT, TensorFlow, wave2vec, Django, Python
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.

Message Compression   **Data Structures and Algorithms**
Huffman Compression, 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.

LEADERSHIP ROLES AND COMMUNITY ENGAGEMENT

Creative Director   **2023/24**
LOCUS
- 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.

Technical Manager   **2023**
Pulchowk Girls
- Leading the technical team in organizing events, seminars, workshops, and digital media.

Software Team Member   **2023**
LOCUS 2023
- Contributed to the front-end development of the LOCUS 2023 certification system, implementing user-friendly interfaces and ensuring a seamless certification process.

Hour of Code Instructor, 2022
Akshar Academy
- 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.

CERTIFICATIONS

- **AWS Academy Graduate - AWS Academy Data Engineering** -Amazon Web Services   View
- **AWS Academy Graduate - AWS Academy Cloud Architecting** - Amazon Web Services   View