Aayushma Katuwal

Bhaktapur   katuwalaayushma508@gmail.com   9818340682   in aayushma-katuwal

aayushma001

Professional Summary

Aspiring Computer Science and AI student with a strong foundation in web development, UI/UX design and Python programming. Experienced in front-end development, legal assistance, and public speaking. Passionate about building user-centric digital solutions and continuously expanding technical expertise.

Education

RBS	**Rosebud School**	May 2013 – May 2020
	• Secondary Education Examination (SEE)	
KWS	**Kathmandu World School**	May 2020 – May 2023
	• School Leaving Certificate (SLC)	
BCU	**Birmingham City University**	May 2024 – May 2028
	• Bachelor of Science with Honors Computer Science with Artificial Intelligence	

Experience

Om Radha Krishna Law Chamber, Legal Assistant — Babarmahal, KTM — Mar 2023 – Present

- Assisted in legal documentation, research, and case file preparation.
- Translated legal documents and helped streamline court reporting processes.
- Coordinated with clients, ensuring efficient case management and documentation.

Freelance Anchor, Event Host — Kathmandu, NP — Jul 2024 – Present

- Hosted Miss Bhaktapur Contest 2024, presenting the launch of Night Vision CCTV Cameras.
- Delivered engaging and professional anchoring for product launches and formal events.

Projects

Architectural Webpage Design and Development — Jun 2024

- Designed a modern architectural website using Figma, focusing on user experience and accessibility.
- Developed the site with HTML, CSS, and Flexbox, ensuring responsive design across all devices.

Hospital Management System — Jun 2024

- Implemented a Python-based system to streamline patient record management and administrative tasks.
- Integrated data security measures to ensure confidentiality.

IoT-Integrated Smart Canteen System — Oct 2024

- Developed an RFID-based smart canteen system with ESP32 and Firebase for real-time data processing.
- Improved efficiency in cashless transactions, reducing wait time by 30

- Led team collaboration and system testing, ensuring seamless integration of hardware and software.

Namaste Nepal   Dec 2024

- Designed an interactive heritage site interface, showcasing Nepal's cultural landmarks and history.

Smart Flood Detection System – Tinker Cad Simulation   Jun 2024

- Designed a smart flood detection system in Tinker Cad, simulating sensor-based real-time monitoring.
- Implemented Arduino-based simulations to detect water levels and issue early warnings.

Efficient Terrestrial and Space Data Relay System for Climate Monitoring   Nov 2024

- Developed a report on data relay systems in climate monitoring using Dijkstra's Algorithm for shortest path optimization.
- Implemented Merge Sort for efficient sorting of communication links in space-to-earth data transmission.
- Explored network topologies and algorithm efficiency in satellite-based climate monitoring.

Certifications and Achievements

1st Runner-Up, UI/UX Design Inter-College Competition - ICT Mela 5.0   Dec 2024

- Recognized for designing Namaste Nepal, an interactive UI/UX project showcasing Nepal's heritage using Figma.

Enterprise Design Thinking Practitioner – IBM   Jul 2024

- Earned Certification in user-centered design thinking, enhancing problem-solving and innovation skills.

Innovate X Virtual Fellowship Program   Jul 2024

- Completed a global fellowship program, gaining insights into entrepreneurship, leadership, and business strategy.

Graduate+ Bronze Award – Birmingham City University   Jul 2024

- Awarded for completing career-enhancing activities, including public speaking, networking, and CV building.

C and C++ Programming Certification (68 Hours) – Broadway Infosys   Jul-Aug 2023

- Completed 68 hours of professional training, gaining expertise in object-oriented programming and algorithms.

Project Presentation – 8th Nepal Chamber Expo 2025 – Nepal Chamber of Commerce   Jan 30 – Feb 3, 2025

- Presented the IoT-Integrated Smart Canteen System (Vojan Express), showcasing RFID-based digital payments at a national expo.

Technical Skills

Front-end Development: HTML, CSS, Figma, JavaScript (Beginner), React (Beginner)

Back-end Development: Python, C, C++, Data Structures and Algorithms (Beginner)

Tools and Platforms: GitHub, GitLab, DataCamp, LinkedIn

UI/UX Design: Wireframing, Prototyping, Adobe XD, Figma