

Himesh Dulal

Computer Science Undergraduate

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Computer Science undergraduate focused on building scalable systems, AI-driven tools, and immersive learning technologies. Experience spans AR systems, hackathon projects, and real-world digital platforms.

Experience

2025 - Present

Technical Advisor (Board Member)

Karmayog Foundation

- Leading development of a digital learning system inspired by Rocket Learning
- Designing backend architecture and scalable workflows for education platforms
- Coordinating technical implementation with operational teams

2024 - Present

Freelance Full Stack Developer

Independent

- Built and deployed 4+ full-stack applications using Next.js
- Delivered SEO-optimized and scalable web solutions for clients
- Developed e-commerce and business platforms

2025

Event Lead

AR Treasure Hunt

- Designed a real-time AR-based interactive event platform for location-based engagement
- Engineered backend system supporting 400+ concurrent users with optimized APIs
- Deployed containerized architecture using Docker for scalability and stability

Projects

- **AR-Based Vocabulary Learning System for Children with Autism** Developed an Augmented Reality-based learning system to support vocabulary acquisition in children with autism.
 - Collaboration with Cognitive Science and Psycholinguistics Laboratory (CSPL), Tribhuvan University and Health Informatics Lab, Kathmandu University
 - Built AR scanner using marker-based tracking with Vuforia and AR Foundation in Unity
 - Designed interactive card recognition system with custom C# logic for object-word mapping
 - Implemented real-time AR scene rendering with optimized asset loading for mobile devices
- **AI Resume Analyzer (Inline Editor)** Built an AI-powered resume evaluation tool with real-time inline editing and contextual feedback generation.
 - Integrated structured scoring system to help users iteratively improve resume quality
 - Implemented inline editor with real-time diff tracking and contextual suggestions
 - Built system pipeline for parsing, scoring, and feedback generation (ATS-style evaluation)

Skills

JavaScript, C/C++, SQL, React, Next.js, Docker, AWS (S3, EC2, RDS, Lambda), System Design, API Development, AI Integration, Augmented Reality

Education

Bachelor of Science in Computer Science

CGPA: 3.92 (till 4th semester)

Expected Graduation: 2027

Kathmandu University

Achievements

- Winner – Hult Prize Kathmandu University
- Winner – Hardware Hackathon (Aavishkar'25, KURC)
- Best Innovation Award – AIDA Hackathon
- Runner-up – KU Hackfest 2025
- Winner – Idea Pitching, KU IT Meet