

# AASHUTOSH DAHAL

Web Developer | 3D/WebGL Specialist

📍 Changathali, Lalitpur, Nepal

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## PROFESSIONAL SUMMARY

Innovative Computer Science undergraduate specializing in **3D web development** and **immersive experiences**. Proven expertise in **React Three Fiber**, **WebGL**, and **WebAR** technologies with demonstrated leadership in cross-functional teams. Passionate about creating engaging interactive interfaces and delivering complex projects under tight deadlines. Seeking to leverage technical skills and creative vision in a **Frontend Developer** or **XR/WebGL Engineer** role.

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## TECHNICAL SKILLS

### Frontend Development

- React, JavaScript (ES6+), HTML5/CSS3
- Three.js, React Three Fiber, WebGL
- RESTful APIs, Express.js

### 3D & Immersive Technologies

- WebAR, WebGL
- 3D Animation & Physics Simulation
- GLTF Model Optimization

### Development Tools

- Git/GitHub, Vite, Postman
- Blender (3D Modeling), Figma (UI/UX)
- Python (Secondary)

## Core Competencies

- Team Leadership & Project Management
  - Cross-functional Collaboration
  - Agile Development Methodologies
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## PROFESSIONAL EXPERIENCE

### 3D Web Developer Intern | *ING Skill Academy*

May 2024 – Present | Devkota Sadak, Kathmandu

- **Architected immersive 3D educational platforms** using React Three Fiber, resulting in 40% increased user engagement
- **Developed WebAR mobile experiences** with 8thWall integration and custom shader programming
- **Led cross-functional development team** of 3 developers to deliver gamified cybersecurity training platform
- **Engineered sophisticated camera systems** with scroll-based navigation, animation blending, and interactive storytelling
- **Delivered synchronized 2D/3D mapping solutions** with real-time camera navigation and performance optimization

### Shop Manager | *V-Light IT*

May 2020 – January 2022 | Changathali, Lalitpur

- **Managed daily operations** including inventory control, staff coordination, and customer relations
  - **Provided technical consultation** for IT products and solutions to 50+ customers monthly
  - **Streamlined vendor relationships** and introduced innovative tech products, increasing store revenue by 25%
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## FEATURED PROJECTS

### Skill Museum Virtual Platform

*React Three Fiber | Three.js | WebGL*

- Developed interactive virtual exhibition space showcasing student portfolios

- Implemented advanced scroll-based camera controls and dynamic spotlight systems
- Optimized 3D model loading and rendering for seamless user experience

## **Futurama Race - WebGL Event Platform**

*Three.js | Interactive Gaming | Event Management*

- Created immersive racing environment with real-time multiplayer capabilities
- Built comprehensive storytelling engine with branching narratives
- Integrated physics-based interactions and performance analytics

## **WebAR Butterfly Quest**

*WebAR | Mobile Development*

- Developed cross-platform WebAR game with gesture-based controls
  - Implemented spatial audio, realistic physics, and particle systems
  - Achieved 95% device compatibility across iOS and Android browsers
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# **EDUCATION**

## **BSc (Hons) Computer Science**

*Herald College Kathmandu | University of Wolverhampton*  
2022 – 2025 (Expected)

- **Final Year Project:** Featured at Biratnagar Experience Showcase
- **Notable Participation:** Futurama Tech Events & Competitions

## **Higher Secondary Education - Science**

*Uniglobe SS/College | 2020 – 2022 | Kamaladi, Kathmandu*

## **Secondary Education**

*GEMS School | 2013 – 2020 | Lalitpur, Kathmandu*

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*Available for immediate start | Open to remote and hybrid opportunities*