

# Alex Gurung

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I am a creative developer and designer with a strong focus on blending technical expertise and user experience research to deliver innovative design solutions that thoughtfully connect people and technology.

## Education

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**University of Michigan – Flint** **Expected: May 2026**  
- Master of Science (MS) in Computer Science and Information Systems

- Graduate Student Research Assistant (GSRA): Advisor: [Dr. Charlotte Tang](#)
- Key Courses: Human Computer Interaction, Machine Learning, Cloud Computing, Business Analytics, Health Informatics, Adv Software Engineering, Adv Databases

**Islington College (London Metropolitan University)** **March 2021**  
- Bachelor of Science (BSc) in Computing

- Grade: 1<sup>st</sup> Class Honors (UK Degree), equivalent to 3.8-4.0 US GPA
- Key Courses: Artificial Intelligence, Computer Hardware & Software Architecture, Logic and Problem Solving, Networking and Operating Systems, Professional Ethics & Computer Law

## Experience

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**University of Michigan** **Aug 2024 – Present**  
- Graduate Student Research Assistant

- First author of a peer-reviewed publication and presented at IEEE FIE 2025 Conference; led project from ideation to publication on HCI and health informatics solutions on digital health technology.
- Conducted mixed-methods data analysis, applying quantitative Python (NumPy, Pandas), SPSS and qualitative (thematic coding) techniques to extract actionable insights.
- Designed and executed Qualtrics survey, collecting 180+ responses from 15+ U.S. States.
- Secured research award grants (Student Endowed Funds, CIT Student Travel Grant, Franz Frazer Funds) and research support from the Hagerman Center for Entrepreneurship & Innovation.
- Guest Lecturer for CSC-510 (HCI): Sessions on Figma prototyping to portfolio-ready flows and Story Completion + Participatory Design connecting research-driven UI methods.

**University of Michigan (College of Innovation & Technology)** **Jan 2025 – Present**  
- Social Media Content Creator & Digital Media Ambassador

- Create and curate engaging 3+ multimedia content weekly for social media platforms, including LinkedIn, Instagram, Twitter (X), and TikTok using tools like Photoshop, Premiere Pro, Canva, and CapCut, and promote content highlighting projects, student life, and campus activities.
- Write technical articles on AI, Cybersecurity, IoT, blockchain for the university newsletters.
- Led social media takeovers and campaigns, using data analytics and content strategy to generate 10k+ views and boost follower engagement.

**ComPro Computers** **2021 – 2024**  
- Front End Developer

- Led the implementation of MedCubes, an Austrian Electronic Health Record system across 10+ hospitals in Nepal, digitizing records for patients, reducing paper-based documentation by 85%

- Integrated telemedicine features, boosting remote consultation access by 40% and improving rural patient follow-up.
- Developed custom front-end UI components using Vue.js, JavaScript, and Bootstrap to enhance usability and improve clinician workflow efficiency.
- Collaborated with a cross-functional team of developers and healthcare professionals to ensure system compliance, data integrity, and user-centered design.
- Translated client feedback into iterative updates through Agile/Scrum sprint cycles, improving usability and stakeholder satisfaction.

### **Empathy IT Club**

#### **- Front End Developer (Intern)**

**2020 – 2021**

- Customized WordPress CMS to build dynamic dashboards and improve content management.
- Maintained CRUD functionalities in C#, streamlining web application data handling.

### **Project Experience**

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**Predicting 30-Day Hospital Readmissions:** Built interpretable ML models with SHAP, improving understanding of patient risk factors, and deployed an interactive Streamlit app for clinical data exploration.

**Canvas LMS Virtual Reality Gamification:** Developed VR gamification system integrated with Canvas LMS, enhancing student engagement through focus groups, lightning demos with progress trees, XP tracking, and an AI chatbot for information retrieval, boosting participation, and class interaction.

**Smart Glass Interaction Design for Low Vision:** Developed Visual AR and Audio interaction patterns for AI wearables to reduce extraneous cognitive load for low-vision users by implementing LLM-driven context filtering and Computer Vision to deliver glanceable descriptions that mitigate information overload.

### **Leadership & Activities**

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**Campus Partner @ Perplexity AI:** Representing UofM growth for Comet browser agentic AI

**LEO Club of Kathmandu Kohinoor:** Working closely with Lions Club, youth empowerment, fundraisers

**Three Star Club – Professional Football Club:** Jr. Sports Coordinator for football tournaments

**Nepalese Student Association (NSA) @ UofM:** International Student Organization Manager

### **Skills & Certifications**

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**Technical Skills:** Python (NumPy, Pandas, Matplotlib, Scikit-learn), JavaScript, Java, Flutter, React, Kotlin, Vue.js, SPSS, Quantitative & Qualitative analysis, AWS, Docker, Google Cloud, Git/GitHub

**Tools & Frameworks:** Adobe XD, Figma, Adobe Photoshop, Adobe Premiere Pro, Final Cut Pro, VS Code, Jupyter Notebook, Laravel PHP, Android Studio, Google Colab, Firebase, SQL Developer, Docker

**Certifications:** Artificial Intelligence Analyst-Mastery Award (IBM), Python Interaction with OS(Google), User Experience Ideation (Google), Cisco Certified Network Professional (CISCO), AWS Academy Graduate - Cloud Foundations (AWS)

**Interests:** Photography (5+ million UNSPLASH downloads), Videography & Content Creation, Football, Guitar, Piano, Travel, Motorbike Riding, Hiking, Trekking