

Sapnil Basnet

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EDUCATION

Texas State University

Bachelor of Science in Computer Science | *Expected May 2027*

Dean's List | Honors College Member

WORK EXPERIENCE

Undergraduate Research Assistant

Texas State University | Computer Science | 2025- | Pytorch, Python, Matlab, OpenCV, Cuda, Caffe

- Collaborating with Dr. Mylene Farias on Saliency Detection in Light Field Imaging.

Web Developer (Freelance)

Local Businesses | 2022–2023 | HTML/CSS, JavaScript, React

- Designed and deployed responsive websites for local businesses and non-profits organizations.

PROJECTS

AI-Assisted Fitness App | React.js, Flask, GitKraken, Django, Python, REST API, PostGreSql

- Developed a group project full-stack web application to help users track nutrition, log meals, and receive personalized fitness recommendations based on body type and goals.

- Designed an interactive dashboard to visualize daily/weekly nutrient intake, progress toward fitness goals, and personalized AI-assisted meal/workout suggestions using OpenAI, deployed on PostGreSql(Supabase) for cloud hosting

Expense Manager | React.js, Firebase (Auth, Firestore, Storage), Chart.js, Vercel

- Built a full-stack web application to track personal expenses with category-based budgeting and real-time analytics

- Designed an interactive dashboard with charts to visualize spending trends and deployed the app on Vercel for cloud hosting.

LEADERSHIP & INVOLVEMENT

Nepal Red Cross Society – Volunteer Technician | 2021–2023

- Supported community health drives and disaster preparedness programs

Interactive Club of Kathmandu – Treasurer | 2021–2023

- Managed budgeting for social initiatives, including voter drives and clean-up campaigns

ACM AI – Texas State Chapter – Member | 2023–Present

- Participated in AI workshops, coding challenges, and career development events

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, HTML/CSS, SQL

Frameworks/Libraries: React, Django, PyTorch, Flask, Caffe

Tools & Platforms: Git, Jira, MATLAB, AWS cloud services, Docker, CUDA