ROSHAN THAPA MAGAR

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EDUCATION

Truman State University, Kirksville, MO   **December 2026**
- **Bachelor of Science in Computer Science**   **GPA 3.80/4.00**
- Awarded a 4-year President's Honorary scholarship which is equivalent to 80% of the tuition.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, XML, HTML, CSS, C, C++, Kotlin, GLSL
Technologies: React, Git, RESTful API, TailwindCSS, Bash, Android Studio, Threejs, Blender, Unity

PROFESSIONAL EXPERIENCE

Computer Science Department, Truman State University   **December 2023-Present**
Research Assistant
- Worked directly with Dr. Nazmul Shahadat to design and analyze deep learning models to accurately predict lung and colon cancer among patients using histopathological images.
- Review, summarize, and analyze existing published research papers on topics related to computer vision using various types of Convolutional Neural Networks.

Pickler Memorial Library, Kirksville, MO   **October 2023-Present**
Student Assistant
- Organize and manage library materials like books, DVDs, CDs, and Audiobooks to ensure an enjoyable environment for readers.
- Collaborate with fellow workers to stacking, self-reading, and searching for missing/misplaced items.
- Assisted patrons in locating library materials.

Sodexo, Kirksville, MO   **October 2023-Present**
Student Worker
- Delivered high-quality service for a myriad of special events like weddings, dinners, and parties.
- Coordinated with kitchen staff, servers, and event planners to set events, transport food, and breakdown equipment in an efficient and timely manner.

PROJECTS

Projects
Stacks Call Number
- Developed a library book call number detection and ordering system to automatize call number reading.
- Utilized the Python libraries such as OpenCV and EasyOCR with the state-of-the-art YOLOv8 CNN model.

Portfolio CLI
- Designed and deployed an aesthetical and responsive personal portfolio website to exhibit my personal projects.
- Programmed a 3D environment with a functional command line interface from scratch in HTML5 canvas and GLSL shaders.
- Leveraged THREE.js, GLSL, TypeScript, HTML, CSS, TailwindCSS, and Blender for engineering Text & 3D effects and deployed using GitHub pages.

ReelEyes
- Collaborated with team members in the TigerHacks 2023 Hackathon to create a web scraper and data visualization tool that analyzes movie reviews from rottentomatoes.com.
- Coded an object-oriented asynchronous web scraping tool in Python using Selenium to scrape movie reviews from multiple pages to pass them through the data visualizer.
- Demonstrated the results with a GUI in a concise manner saving time for users who want to research a certain movie.

ID Card Generator
- Created an ID card generator that produces an ID card with QR codes from a set of given text and image input.
- Utilized OpenCV to detect and crop faces into an ID frame and PIL to manipulate images to incorporate text.