

Chhimi Tashi Sherpa

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[Github](#) | [LinkedIn](#)

Education

Westminster University (07/2021 - 05/2025) | Computer Science, Data Science | GPA:3.9

Work Experience

Web developer Intern— Westminster University, Marketing and Communications
(08/01/2024–Current)

- Wrote and edited **HTML**, **JavaScript**, **CSS Bootstrap** and **XSL**
- Collaborated with team members to diagnose and fix website issues, improving team communication and problem-solving skills.
- Utilized **GA4** to collect and analyze website data, creating visualizations of page visits, user flows, and search performance, which improved decision-making for website optimization.

Computer Science Research Intern — Great Salt Lake Institute (5/1/2023–1/1/2024)

- Trained a Neural Network using **Python** and **YOLO** to recognize pelican beaks and horns, performing statistical analysis and data visualization using **R** to derive insights.
- Presented research on measuring pelican beaks at Salt Lake Community College and Geek Fest, showcasing the practical applications of AI tools in wildlife research to a diverse audience gaining further funding for the project.

Resident Assistant — Westminster University (7/5/2022 – Current)

- Led a community of 50 residents and created an environment of support and growth through organizing community events and activities. Improved communication between residents.

Discrete Math Grader — Westminster University (07/01/2022 – 07/01/2023)

- Ensured accuracy and attention to detail while grading assignments.

Research Projects

- **Captcha Hacking with AI**: Bot capable of bypassing Google's reCAPTCHA, aimed at evaluating the effectiveness of traditional web security methods using **Selenium** and **GPT-vision**.
- **AI Powered Web Scraper and analysis**: Combined Selenium with the **Gemini AI API**, using Python to scrape over 1000 job postings for statistical analysis using R. Used Excel to clean up data and used Powerpoint for a presentation at the student showcase.
- **Customer Ratings Analysis**: Developed a predictive model to understand the impact of pricing and other factors on overall business ratings for local businesses, using Google Places API for data collection through Google reviews and R for analysis.

Software Development Projects

- **RPG Game**: Developed a text-based RPG game using Python to practice algorithm and data structure concepts, Implemented AI opponents with varying difficulty levels to enhance gameplay.
- **Website for Utah Debate Association**: Led a team project to create a new website using django, implementing a custom backend with **SQLite database** for admin functions.
- **A* Maze Solver**: Developed a program utilizing A* algorithm to efficiently solve maze puzzles.
- **Game in Godot**: Collaborated within a team to develop a space shooter game using the Godot game engine to create a math game for children.
- **Car damage Analysis**: Developing a full-stack application using React Native, Python, and MySQL that utilizes a custom-trained AI to detect and list visual damages on cars. The app is designed to assist car dealerships in providing initial quotes for vehicles customers are interested in selling.

Skills

- Proficiency in Python, R, and statistical analysis, SQL.
- Experience with data visualization tools and methodologies.
- Familiarity with C++, JavaScript, Scala, Java, Excel, Word and Git.
- Knowledge of Agile software development methodologies.
- Ability to work independently and collaboratively in team environments.
- Finding innovative use cases for new technologies like AI.
- Strong problem-solving skills and attention to detail
- Highly motivated with the ability to multitask.

