Parsanna Koirala

Gaithersburg, MD | 240-817-9421 | prasanna.koirala302@gmail.com | github.com/ParsannaK

EDUCATION

UNIVERSITY OF MICHIGAN - ANN ARBOR   Ann Arbor, MI
Bachelor of Science through the College of Engineering   Expected May 2026
Major in Computer Science
Relevant Coursework: Data Structures and Algorithms, Linear Algebra, Computer Security, Computer Organizations

MONTGOMERY COLLEGE (Guest Student)   Rockville, MD
Guest Student during Summer 2023 and Summer 2024   Jun 2023 - Aug 2024

WORK/VOLUNTEER EXPERIENCE

UNIVERSITY OF MICHIGAN - ANN ARBOR   Ann Arbor, MI
Building Supervisor/Manager   Apr 2024 – Present
- Led a team of 15+ Membership Services Assistants to ensure efficient front desk operations and customer service.
- Oversaw daily gym operations, including equipment maintenance, facility safety, and member satisfaction to create a positive and efficient environment.
- Managed scheduling, resolved conflicts, and maintained smooth daily operations.

ACCESSABILITY MEDCARE LLC   Derwood, MD
Volunteer   Jun 2019 – Aug 2022
- Assisted children and youth with special needs, including those on the Autism Waiver, by providing individualized support and engagement in outdoor and educational activities.
- Supported community-based programs, helping integrate therapeutic and recreational activities to enhance social and developmental outcomes.
- Facilitated math tutoring and other skill-building exercises, fostering a positive learning environment.

PROJECTS

DCNN LANE DETECTION MODEL   Sep 2023 - May 2024
- Developed a machine learning model using DCNN and DRNN to detect and predict lanes from live video streams
- Collected data and trained the model for use in the IGVC competition

WEATHER WEB APP   Jan 2016
- Developed a user-friendly weather web app using HTML, CSS, and JavaScript, displaying real-time weather data based on user-inputted locations.
- Integrated a third-party API to fetch and display accurate weather information dynamically.

ACTIVITIES

UM AUTONOMOUS ROBOTIC VEHICLE TEAM   Boston, MA
Computer Vision Member   Jan 2023 – Present
- Researched and developed lane detection models, creating and collecting datasets for training.
- Assisted in recruiting and onboarding 30+ new members to the Computer Vision subteam, fostering a collaborative and inclusive team environment.
- Utilized CUDA architecture to accelerate computations for ML Lane Detection models.

ADDITIONAL

Technical Skills: Advanced in C/C++, Python, C#, Javascript, HTML/CSS; Proficient in Java, MATLAB, Swift
Languages: Fluent in English, Nepali; Conversational Proficiency in Spanish, Hindi
Multimedia: Microsoft Office Suite, Adobe products, Figma, Unreal Engine, Unity
Interests: Machine Learning, Artificial Intelligence development, Software Development