Genesis Argueta

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EDUCATION

University of Notre Dame | Notre Dame, IN   May 2026
Mary E. Galvin Scholar and Fighting Irish Scholar
Major: Computer Science
Relevant Coursework: Theory of Computing, Discrete Mathematics, Data Structures, Computer Architecture, Operating Systems, Intro. to Linear Algebra & Differential Equations, Coding Theory

Summer Engineering in London | London, UK   July 2023 – August 2023

WORK EXPERIENCE

Math Department – Calculus II | Notre Dame, IN   January 2024 - Present
Undergraduate Teaching Assistant
- Assisted during 105-minute tutorial once a week.
- Held office hours once a week.

Ethical and Professional Issues Research Lab| Notre Dame, IN   March 2023 - Present
Undergraduate Teaching Assistant
- Conducting human-computer interaction research to design technology-driven solutions that empower people and protect the well-being of youth and marginalized communities.
- Interviewed over 20 families and examined the relationship between social media and Latino families.

Computer Vision Research Lab | Notre Dame, IN   September 2023 - Present
Undergraduate Research Assistant
- Annotate over 100 raw video clips for human detection including different prompts, lights, and movements.
- Created new test sets be identity-disjoint with all currently known in-the-wild training sets, and identity-disjoint folds are defined for cross-validation using LFW, CPLFW, CALFW, CFP-FP or AgeDB-30 data sets.

LEADERSHIP AND ACTIVITIES

Fighting Irish Scholar Mentor | Notre Dame, IN   September 2023 – Present
- Guided with academics, professional development, and social life to empower first-generation and low-income mentees to make informed decisions and succeed in college.
- Increased mentees's confidence during their transition to college life by helping mentees develop a stronger sense of self-assurance and adaptability.

CS4Good DePaul Coding Club | Notre Dame, IN   September 2023 - Present
- Teach **Python** weekly to boys between the ages of 8 to 14 with a history of trauma needs.

RELATED COURSEWORK OR PROJECTS

Credit Card Fraud Detection Model   June 2024
- Designed **machine learning** models in **Python** focusing on fraud detection achieving a minimum accuracy of 95% utilizing five different algorithms.
- Implemented data processing techniques such as normalizing certain features and address class imbalances.

LanguageLink | University of Notre Dame   April 2024
- Developed an authentic language learning web with 3 other team members at Hesburgh Hackathon
- Utilized **React**, **JavaScript, HTML, CSS** for frontend development.
- Leveraged OpenAI API to make a customized chatbot for language learning.

Miles: Web Crawler | University of Notre Dame   March 2024
- Utilized functional programming to process data in **Python.**
- Extracts links to media files such as JPG, PNG, PDF, and MP3, and downloads them concurrently using a process pool.

Lost and Found Notre Dame App Development | University of Notre Dame   October 2023 - Present
Lead Research Assistant and Software Developer
- Created a wireframe of the app prototype using **Figma.**
- Collaborates with two other individuals to conduct interviews for feedback on UI/UX designs and utilize **JavaScript** and Python for front and back-end development.

TECHNICAL AND LANGUAGE SKILLS

Programming Languages: Proficient in Python, C, MATLAB, JavaScript, HTML, CSS
Misc: Proficient in SolidWorks, Linux/Unix, Git, Shell Scripting, React, TensorFlow, Flask