

Raul Daniel Higareda

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science and Statistics | Math Minor
James Scholar Honors | GPA: 3.8 / 4.0

Champaign, Illinois

Aug. 2021 – May. 2025

EXPERIENCE

Incoming Fall Software Intern

John Deere

August 2023 – December 2023

Chicago, Illinois

Technology Analyst Summer Intern

Credit Suisse

June 2023 – August 2023

New York City, New York

- Developed an NLP-based text classifier with Python, categorizing IT incidents and predicting resolutions at 80% accuracy; enhanced efficiency by 8100% through automated data labeling.
- Constructed a multivariate model with gradient-boosted trees, leveraging TF-IDF embeddings for data transformation.
- Created a Flask API for model predictions, paired with a frontend using HTML, CSS, and Bootstrap, deployed via Flask.

Undergraduate Research Assistant

Parasol Lab

January 2023 – May 2023

Champaign, Illinois

- Contributed to the library the research group created.
- Improved code quality and reliability via C++ refactoring and test implementation.

Course Associate for Computer Science Principles I (CS124)

University of Illinois at Urbana-Champaign

January 2022 – May 2023

Champaign, Illinois

- Created lesson solutions and videos to simplify complex programming concepts.
- Mentored students in problem-solving and proctored programming assessments.

PROJECTS

Social Media Visualizer | C++, Docker

2022

- Identified the most influential person in a Facebook dataset using the Betweenness Centrality algorithm.
- Utilized Dijkstra's algorithm for connection path analysis.
- Designed terminal-based data visualization for results.

Artsi | ReactJs, JavaScript, npm, yarn, HTML, CSS

2022

- Engineered a user-centric art creation and education website.
- Developed systems for video handling, user profiles, and content search.
- Implemented interactive design layout for drawing spaces.

NER-Google-Chrome-Extension | Python, JavaScript, Django

2023

- Created a Chrome extension using StanfordNLP, enabling named entity recognition on web pages via a Django backend.
- Managed data flow between JavaScript and Django server, processing text and returning named entities as JSON.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, R, Rust, LaTeX

Developer Tools: Git, Docker, VS Code, Visual Studio, Eclipse, AWS S3

Frameworks/Libraries: pandas, NumPy, Matplotlib, PyTorch, React, Node.js, Material-UI, Anaconda, Jupyter Notebook, Flask, MongoDB, nltk, Scikit-Learn

RELEVANT COURSEWORK

Data Structures, Calculus III, Linear Algebra, Statistics & Probability I & II, Numerical Methods I, Intro Differential Equations, Intro to Computer Systems, Algorithms & Models of Computation, Deep Learning for Computer Vision, Statistical Modeling I