

# 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

### Software Engineer Intern

*John Deere*

August 2023 – December 2023

Chicago, Illinois

- Contributing to the backend of internal site using Node.js, JavaScript, and SQL
- Managed CI/CD pipelines in Azure DevOps and AWS; worked with Spring Boot and Apache Maven.

### Software Engineer 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 – **Current:** Databases, Stochastic Processes, Programming Languages and Compilers