

Raul Daniel Higareda

☎ 512-888-5741 | ✉ raul.d.higareda@gmail.com | [linkedin.com/in/raul-higareda-b8723b1a7](https://www.linkedin.com/in/raul-higareda-b8723b1a7) | github.com/raulington
📁 [Portfolio](#)

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science and Statistics

LAS James Scholar Honors

GPA: 3.8 / 4.0

Champaign, Illinois

Aug. 2021 – Fall 2024

EXPERIENCE

Undergraduate Research Assistant

Parasol Lab

- Contributing to the library the research group created
- Refactoring existing code, Writing test-cases for algorithms using C++

Jan 2022 – Present

Champaign, Illinois

Course Associate for Computer Science Principles I (CS124)

University of Illinois at Urbana-Champaign

- Contributed to lesson solutions/videos
- Helped guide students with solving programming problems
- Helped proctor quizzes

January 2022 – Present

Champaign, Illinois

PROJECTS

Social Media Visualizer | C++, Docker

2022

- Used the betweenness centrality algorithm to determine the most influential person on the Facebook dataset
- Utilized Dijkstra's to find the number of connections between a random user to the most influential user
- Visualized results on terminal

Rust-Battleship | Rust

2022

- Constructed a game of battleship in Rust that runs on the command line and plays against the computer
- Developed structure of the game, how the game initializes, the opposing AI, and the way game visuals are outputted

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

2022

- Constructed a website that acts as an entry point into the creation of drawings
- Provided a way for lesson videos to be uploaded and stored and to let users create a profile and search for videos
- Implemented the overall design layout of the website and drawing spaces

Classification of Stellar Objects | Jupyter Notebook, pandas, NumPy, Matplotlib

2022

- Cleaned a dataset and used it to train a random forest classifier
- Evaluated the accuracy of the model by creating a confusion matrix and evaluating the precision and recall metric

TECHNICAL SKILLS

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

Frameworks: React, Node.js, Material-UI, Anaconda, Jupyter Notebook

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

Libraries: pandas, NumPy, Matplotlib, PyTorch

RELEVANT COURSEWORK

Completed: Data Structures, Calculus III, Linear Algebra, Statistics & Probability I & II, Numerical Methods I, Intro Differential Equations

Spring 2023: Intro to Computer Systems, Algorithms & Models of Computation, Deep Learning for Computer Vision, Statistical Modeling I