



# John Reddick

1006 Bobbin Lane  
Belmont, NC 28012  
☎ 813-253-9426

✉ [john.work.reddick@outlook.com](mailto:john.work.reddick@outlook.com)

 [John-S-Reddick](#)  
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## Education

<b>Bachelor of Science, Computer Science</b> , University of North Florida, Jacksonville, FL	<b>May 2024</b>
<b>Associates of Arts &amp; Sciences, Computer Science</b> , Hillsborough Community College, Tampa, FL	<b>Dec 2019</b>

## Proficiency

<b>Programming Languages:</b>	C, C++, Java, Python
<b>Web Development:</b>	JavaScript, React, Node.js, HTML, CSS
<b>Database Management:</b>	MySQL, PHP, Axios, Rocket
<b>Tools:</b>	GitHub, Linux, MATLAB, VSCode, Tableau

## Professional Experience

<b>Contractor, Insight Global, Huntersville NC</b>	<b>Dec 2024-Present</b>
<b>Test Technician- Newell Brands</b>	

- Setting up and performing tests on products, software or systems to evaluate performance and compliance with standards
- Documenting and analyzing test results, and reporting any issues or discrepancies to the relevant team
- Assisting in the development, implementation, and automation of test procedures
- Maintaining and calibrating testing equipment to ensure accurate results
- Conducting failure analysis and troubleshooting to identify problems and areas for improvement
- Working closely with design and production teams to understand product specifications and recommend adjustments if needed
- Complying with safety rules and regulations in the testing lab or facility
- Participating in quality assurance activities and assisting in the development of quality standards

<b>Intern/Data Scientist, University of North Florida, Jacksonville, FL</b>	<b>May 2024 – Aug 2024</b>
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One of 12 students selected for an intensive 12-week hybrid internship focusing on the healthcare coverage gap due to income level for Medicaid-ineligible citizens. The internship was commissioned by the Florida Health Justice Project (FHJP), a non-profit organization. Worked with 25 industry professionals and UNF professors to enable state, county and community leaders to make data-driven decisions while addressing societal issues. Part of a team of 3 to create an interactive presentation with specific easy to access metrics.

- Collaborated with an interdisciplinary team to execute the data science pipeline, from exploratory data analysis to modeling and storytelling to meet the needs of our community partner
- Synthesized data from Sources: 2022 American Community Survey, 2022 County Health Rankings, and 2022 Florida Health Charts, using Tableau, to create an interactive dashboard by Florida county
- Coordinated data-driven decision-making process with FHJP
- Provided final workbook with interactive health metrics, demographics and economics for easy review and interpretation
- Proficiency in Python, Tableau and Matplotlib to create impactful visualizations for FHJP's use when presenting to governing bodies
- Participated in a concluding presentation to industry leaders, community stakeholders and UNF academia with a final workbook which focused on interactive health metrics, demographics and economics to enable an easy understanding of the issues of grave concern in the State of Florida.

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## University of North Florida, Jacksonville FL – Various Positions

May 2020 – Aug 2023

### Research Assistant - Machine Learning, Computer Science Department, May 2023 – Aug 2023

- Used MATLAB and Python to process CSV files for machine learning applications
- Implemented machine learning frameworks: Gaussian process, Linear classifiers, and Reinforcement Learning, enhancing model accuracy and efficiency
- Used Neural Networks to predict areas of concern for a drone to discover potential tomato blight regions in a simulated crop field

### Research Assistant - Condensed Matter Physics, Physics Department, May 2021 – July 2021

- Selected by Professor of Condensed Matter Physics to join a team of 7 to study the effects of how manganese imperfections affect the magnetic properties in spin glass materials Gallium Sulfide and Indium Sulfide.
- Compared simulated results with Hamiltonian calculations, and density functional calculations to determine properties of quantum energy levels for spin 5/2 clusters.

### Tutor - Student Academic Success Services (SASS), Sept 2022 – Dec 2022

- Supplemental Instruction - Academic support to 7 – 10 students per week, 20 hours per week

### Recitation Lead for Computer Science, Aug 2020 – Jan 2021

- Specific focus on Computer and calculus-based Physics classes. Responsible for leading 2 session/week with 20-25 students; reviewed with students the covered material during the week

### Intern-Full Stack Development, Picture Yourself Stories, LLC, Jacksonville, FL

Jun 2020 – Aug 2020

- Part of a team of 5 who developed web application using JavaScript, React, Bootstrap, Node.js, contributing to project milestone and improving user experience
- Managed MySQL database for efficient data storage and retrieval and used PHP as middleware layer

## Ongoing Research

### Sign Language Dictionary

Jan 2024 - Present

- Ongoing research to assist ASL using TensorFlow, OpenCV, and MediaPipe for gesture recognition
- Created a Python implementation of machine learning algorithms (Jackknife and Machete) accelerated by NumPy, for gesture classification
- Used TKinter to create a UI to stitch elements together

### ARCOS Database Research Paper

- Analyzed over 250GB of medical records to study opioid overdoses, utilizing MySQL, and Python for data processing.

## Achievements

### 1<sup>st</sup> Place UNF Student Symposia Award

Spring 2024

- Awarded by Computer Science faculty of the University of North Florida
- Demonstrated the ability to input computer commands using hand gestures with an eye towards developing this into further project which will become publishable research

### Eagle Scout, Troop 53, Tampa Florida

2015