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| 1006 Bobbin Lane | \* [john.work.reddick@outlook.com](mailto:john.work.reddick@outlook.com) |
| Belmont, NC 28012 | [John-S-Reddick](https://github.com/John-S-Reddick/resume-reference) |
| ( 813-253-9426 | [John Reddick](https://www.linkedin.com/in/john-reddick-4803a41a7/) |

**Education**

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| **Bachelor of Science, Computer Science,** University of North Florida, Jacksonville, FL | **May 2024** |
| **Associates of Arts & Sciences, Computer Science,** Hillsborough Community College, Tampa, FL | **Dec 2019** |

**Proficiency**

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| **Programming Languages:** | C, C++, Java, Python |
| **Web Development:** | Typescript, Postgres, React, Node.js, HTML, CSS |
| **Database Management:** | MySQL, PHP, Axios, Rocket, Drizzle |
| **Tools:** | GitHub, Linux, MATLAB, VSCode, ImageJ, Tableau, PowerBI |

**Professional Experience**

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| **Contractor, Insight Global, Huntersville NC**  **Test Technician- Newell Brands**   * Created custom ImageJ plug-in based analysis tool to decrease testing time, increase reproducibility and enhance automation * Used the T3 stack to reduce redundant work and create a realtime task board to help shareholders understand ongoing projects. * 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 * Working closely with design and production teams to understand product specifications and recommend adjustments if needed | **Dec 2024-Present** |
| **Intern/Data Scientist, University of North Florida, Jacksonville, FL** | **May 2024 – Aug 2024** |

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 intership 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. Responisible for leading 2 session/week with 20-25 students; reviewed with students the covered material during the week

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| **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**

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| **1st 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

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| **Eagle Scout, Troop 53, Tampa Florida** | **2015** |