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

**Bachelor of Science Degree, Computer Science, May 2024**

University of North Florida, Jacksonville, Florida

**Associates of Arts, December 2019**

Hillsborough Community College, Tampa Florida

**Proficiency**

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

**Professional Experience**

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| **Intern/Data Scientist, University of North Florida**  **Jacksonville, FL** | **May 2024 – Aug 2024** |

One of 12 students selected for an intensive 12-week in-person internship to tackle data-rich projects through the University of North Florida. Assigned to the Florida Health Justice Project (FHJP), Jacksonville, FL, a non-profit organization focusing on the healthcare coverage gap for Medicaid-ineligible citizens due to income level. Work with 25 industry professionals and UNF professors to develop product enhancements for the project.

* Part of a team of 3 to determine impacted areas in Florida to create visualizations for presentation to governing bodies (state legislature, county and local community) and community leaders
  + Mined US Census Data, Medicare.Gov data, and other relevant resources to collect/refine data within search parameters
  + Objective: Work with Python, Tableau and MatPlotLib to create visualizations for use by the FHJP when presenting to governing bodies

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| **Various Positions, University of North Florida**  **Jacksonville, FL** | **May 2020 – Aug 2023** |

**Research Assistant - Machine Learning, Computer Science Department**

* 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
* Worked with computer simulation to create predictive models for emerging tomato blight
* 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**

Selected by Professor of Condensed Matter to join a team of 7 to study the effects of imperfections in spin glass

* + Developed set points for the following substation SEL relays: High Side Circuit Switcher, Xfmr Differential, Bus Tie Breaker, and BUS Differential to coordinate with Feeder Breaker
  + Simulated interactions of atoms in the structure of spin glass to determine how characteristics of the material were altered; Tested 4 types of impurities and noticed no statistically significant difference change in the structure of magnetic properties of the spin glass

**Tutor - Student Academic Success Services (SASS)**

* **Supplemental Instruction -** Academic support to 7 – 10 students per week, 20 hours per week
* **PASS (Peer Assisted Student Success) Leader - Computer Science and Physics -** Specific focus on Computer and calculus-based Physics classes. Responisible for leading 1 session/week with 20-25 students; reviewed with students the covered material during the week

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| **Intern-Full Stack Develoipment, Picture Yourself Stories, LLC**  **Jacksonville, FL** | **Aug 2020 – Dec 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

**Projects**

**Sign Language Dictionary**

* Utilized TensorFlow, OpenCV, and MediaPipe for gesture recognition, improving accessibility for the deaf and hard of hearing community
* Created a Python implementation of machine learning algorithms Jackknife and Machete accelerated by NumPy, for gesture classification

**ARCOS Database Research Paper**

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

**Achievements**

Eagle Scout, 2015

Golden Panther Award in Programming, H.B. Plant High School, 2017

**Relevant Coursework**

* Data Structures and algorithms
* Databases
* Operating Systems
* Computer Networks
* Linear Algebra