John Reddick

1006 Bobbin Lane
Belmont, NC 28012

☎ 813-253-9426
✉ john.work.reddick@outlook.com
John-S-Reddick
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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

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

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

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

- 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