John Reddick

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John-S-Reddick
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Education

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

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, 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.

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

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

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