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:	Typescript, Postgres, React, Node.js, HTML, CSS
Database Management:	MySQL, PHP, Axios, Rocket, Drizzle
Tools:	GitHub, Linux, MATLAB, VSCode, ImageJ, Tableau, PowerBI

Professional Experience

Contractor, Insight Global, Huntersville NC **Dec 2024-Present**
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

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

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**