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Princess Priscilla Lyons

Education

Doctor of Philosophy | May 2022 | University of Florida, Gainesville

- · Major: Electrical & Computer Engineering, 3.52/4.00
- Research Interests: Machine Learning, Natural Language Processing, Data Analytics

Master of Science | Dec 2019 | University of Florida, Gainesville

- · Major: Electrical & Computer Engineering, 3.52/4.00
- · Research: Machine Learning, Image Processing, Anomaly Detection

Dual Bachelor of Science | Honors Scholar | May 2017 | University of Missouri, Columbia

- Major: Electrical Engineering, Computer Engineering, 3.16/4.00
- · Minor: Spanish, Computer Science, Mathematics

Work Experience

Data Science Intern | Lam Research Corporation | Summer 2020

- · Worked on an Industry 4.0 initiative within the Service Analytics Research and Development group to improve automatic equipment testing and analysis between field engineers and data analysts
- · Developed efficient parsers to extract recommended parameters used for building statistical models from numerous technical documents and export them for easier utilization for model building
- Created programs to automatically generate and filter parameters for fleet monitoring applications in developed for Lam Etch Chambers

Graduate Research Assistant | University of Florida | Fall 2017 - Present

- Conducted natural language processing research on multi-lingual datasets to analyze the effects of translation on cross-lingual authorship attribution
- Cooperated with a team of researchers from remote universities to develop an underwater environmentally adaptive target characterization and detection system
- · Compared and developed unsupervised and supervised anomaly and target detection methods in synthetic aperture sonar (SAS) imagery
- Authored and presented a SPIE Defense + Commercial Sensing research paper titled, "Comparison of Prescreening Algorithms for Target Detection in Synthetic Aperture Sonar Imagery." [1]

Software Engineering Intern | Lockheed Martin - Space Systems Company | Summer 2016/2017

- · Collaborated with a team of software engineers on an independent research and development project
- · Created C++ software tools to parse SDAS files of a switch matrix to locate errors in the hardware configuration, return all USB device names, GUIDs and paths to the user
- Designed a C++ driver to interface with a Serial I/O SIO4 board using a RS422 communication standard on a RedHawk Linux real-time operating system
- · Utilized the Hardware-in-the-Loop (HWIL) technique to troubleshoot and perform successful transmissions and receptions of data with a serial I/O SIO4 board for an integrated flight simulation

Skills & Relevant Courses

- Skilled in C, C++, Java, Python, R, CUDA, OpenMP and Matlab programming languages
- Software Design, Embedded Systems and Computer Architecture, Hardware Security

Honors, Leadership & Activities

- Afri.-American/Afr./Afr. Diaspora students in ECE Secretary (A3ECE) (2020-Present)
- · GEM Full Science Fellow 2020
- · Univ. of Florida Graduate Research Assistantship Award
- · Univ. of Florida ECE Ambassador (2020 Present)

- Machine Learning, Image Processing, Data Analytics and Natural Language Processing
- · Fundamentals of Biometric Identification
- · Advanced conversational Spanish
- Univ. of Missouri, Celebration of Women in Engineering Honoree 2016
- · Univ. of Missouri Dean's Lists (Fall 2014, 2016)
- · Univ. of Missouri Engineering Ambassador (2014-2015)
- · Mizzou IEEE Engineers Treasurer (2016-2017)
- · National Society of Black Engineers (2012 Present)

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