

# JAQUAN STARLING

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## EDUCATION

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Florida International University, Miami, FL Graduated 2022  
**Bachelor of Science in Interdisciplinary Engineering** GPA: 3.55/4.0  
Minor: Computer Science Honors College | Dean's List

## WORK EXPERIENCE

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**MITRE**, McLean, VA Jun 2022-Present

Associate Business Process Engineer

- *United States Geological Survey (USGS) Seedling Project; May 2022 – July 2022*
  - Contributed to technical documentation.
  - Created a road mapping visualization breaking down stakeholder recommendations into 3 frameworks. The template was easy to understand and highlighted actionable next steps.
  - Documented frequently asked questions and answers that participants might have. Cross referenced these questions with preexisting information.

**Verizon**, Tampa, FL Jun 2021–Aug 2021

Data Center Operations Intern

- Improved Data Center equipment air flow models to reduce power consumption by 15% saving \$3050 in costs.
- Updated and reviewed AutoCAD reports to reflect current building electrical control systems.

**Next Era Energy**, Miami, FL Jun 2020–Aug 2020

Thermal Analysis Intern

- Developed an algorithm using Python to automate and analyze large data sets from a mesh network.
- Assisted in modeling a 25-foot service water bypass line from a piping and isometric drawing using Caesar II.
- Communicated key takeaways and best practices to senior leadership.

**National Science Foundation**, Miami, FL May 2019–Aug 2019

Hardware Engineering Intern

- Engineered a low-cost finger-based heart rate sensor to provide an economical solution for blood pressure prediction.
- Collected and analyzed experimental pulse data to determine device efficiency.
- Presented Blood Pressure Prediction research at FIU's College of Engineering Summer Research Symposium.

## PROJECT EXPERIENCE

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**Energy Grid Decision Making Under Long Term Climate Hazard Uncertainty** Aug 2021–May 2022

- Built an interactive map of Miami Dade County displaying 81 zip codes with information about climate hazards, solar panel investment information, and infrastructure recommendations.
- Arranged 5 stakeholder interviews to evaluate project scope, enlist feedback, and determine stakeholder needs.

**Assistive Communication App** Mar 2021–Apr 2021

- Designed a graphical user interface application using Python and Tkinter for children with communication disabilities.
- Implemented user feedback into application design resulting in a more accessible app.

**Predictive Policing in Artificial Intelligence (AI)** Mar 2021–May 2022

- Led a seven-person team to establish project scope, timeline, and newsletter considerations.
- Conducted literature review on the intersection between racial justice and artificial intelligence technologies.

## HONORS

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Black Student Union Executive Board Member of the Year May 2022

Featured in Florida International University Newspaper Article Mar 2022

Artificial Intelligence Research Fellow Apr 2021

Public Interest Technology Fellow May 2020

National Action Council for Minorities in Engineering (NACME) Jan 2020

## SKILLS & INTERESTS

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**Skills:** Design Thinking, Strategic Planning, Technical Writing, Storytelling, Market Research

**Interests:** Writing, Working Out, Reading