

# Julia Shaheed

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## EDUCATION

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**University of South Florida** | *Bachelor in Cybersecurity*

*Tampa, FL | Expected 04/2027*

**Teacher's Assistant | Foundations of Engineering Lab (EGN 3000L)**

*Tampa, FL | 08/2025- Present*

- Support 100+ students in mastering engineering concepts through grading, feedback, and one-on-one guidance.
- Strengthen student comprehension through clarifying technical concepts and demonstrating problem-solving techniques.

## WORK EXPERIENCE

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**Data Engineer | University of South Florida**

*Tampa, FL | 10/2025- Present*

- Developed and deployed a publicly hosted interactive hydrology dashboard visualizing 10+ river basin monitoring stations and integrating environmental variables using JavaScript, HTML/CSS, and GeoJSON.
- Implemented a river flow forecasting module analyzing daily time-series data across decades, enabling users to explore projected wet/dry season trends and improving research accessibility through dynamic, interactive visualizations.

**Software Intern | New Jersey Institute of Technology (NJIT)**

*Virtual | 06/2023 – 08/2023*

- Analyzed 5,000+ data points from epidemiological studies, improving data accuracy by 75% through debugging and optimization in Python.
- Automated 80% of data processing tasks, cutting manual workload by 60% and accelerating analysis turnaround time by 40%.

## PERSONAL PROJECTS

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**Personal Portfolio Website (HTML, CSS, JavaScript)**

- Developed and deployed a responsive portfolio website using HTML, CSS, and JavaScript to highlight projects, skills, and experience.
- Integrated external resources including a LinkedIn profile link and downloadable PDF resume for professional accessibility.

**Hydrology Forecast Dashboard (JavaScript, HTML/CSS, GeoJson)**

- Developed an interactive hydrology visualization dashboard using HTML, CSS, and JavaScript to analyze river basin data for the Irrawaddy and Mekong rivers, integrating streamflow, precipitation, and land-cover datasets.
- Implemented dynamic charts and geospatial visualizations to compare observed vs. simulated streamflow trends (2001–2023), enabling users to toggle datasets and explore seasonal patterns.
- Deployed and maintained a public research website, improving accessibility of environmental data and supporting ongoing hydrological forecasting and watershed analysis for the research team.

**CuttleBot | Arduino-Based Ocean Awareness Robot (ArduinoIDE)**

- Designed and built a recyclable cuttlefish-inspired robot using Arduino, IR, and ultrasonic sensors to navigate and detect obstacles.
- Coded in C++ to make the robot search for “food” objects and ensured the design was safe and engaging for kids.

## SKILLS & CERTIFICATIONS

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**Languages: Python, Java, JavaScript, HTML/CSS, C++**

**Frameworks: React.js, Node.js, Arduino IDE**

**Girls Who Code Immersion Program (SIP)**

*Virtual | 08/2022*

- Completed intensive coursework in HTML, CSS, JavaScript, and Python; developed 5+ projects in web development, game design, and AI.

**ID Tech, Princeton University | Python For Machine Learning**

*Princeton, NJ | 08/2022*

- Applied Python to build and test ML models across multiple platforms; gained hands-on experience with data driven applications.