

Taniya Shaffer

Embedded Software Engineer

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Work Experience

Aviaris – Founder, Chief Technology Officer

March 2025 – July 2026

- Designed foundational architecture for a web app centralizing heavy maintenance aviation communication between supervisors, planners, and technicians.
- Established company website and online social media presence to gain credibility in B2B roles.
- Introduced agile development and testing-first culture using unit and integration tests.
- Set internal data and security policies regarding AI usage to ensure proprietary data is safe.

Bayer U.S. LLC Crop Science IT – Software Engineer I

January 2023 – August 2025

- Implemented feature in geospatial mapping app reducing a 14-click user process to 4-clicks.
- Optimized map validation algorithm which led to a 6.5x faster page load speed and significantly reduced wait time for greater than 5,000 users.
- Practiced the full development cycle from approving code reviews to deployment in NP and Prod environments.

IBM – Software Developer Intern

June 2021 – August 2022

- Developed frontend in React with Node.js to automate a daily process by 80%, saving over 10 hours a week per team.
- Built 14 z/OS drivers for mainframes to ensure an updated testing environment which impacted a customer base of greater than 2,000 customers.

Education

University of Central Florida, BS Computer Engineering

August 2018 – December 2022

Study Abroad: American University of Cairo, Egypt

January – March 2020

Skills

Languages: JavaScript, CSS, Python, C, Java, Verilog, C++, VHDL, SQL, HTML, MATLAB

Hardware: ESP32, Raspberry Pi, Arduino, FPGA, UART/I2C/SPI, Xilinx Basys3, TI MSP430xx

Services: GitHub, AWS, Microsoft Office, Google Suite

Operating Systems: Windows, iOS, Linux, z/OS

Processes: CI/CD, TDD, Agile, Embedded

Other

Certifications: Open Water Diver (SDI), Advanced Adventure Diver (SDI), Computer Nitrox Diver (SDI), Deep Diver (SDI), Drysuit Diver (SDI), Night-Limited Visibility Diver (SDI), Search & Recovery Diver (NAUI), Adult and Child Emergency Care (FRTI), Oxygen Administration (FRTI), Rescue Diver (SDI), Air Fill Technician (SDI), VIP Inspector (SDI)