

# Tyler Spring

Cockeysville, MD

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## Summary

Results-driven Software Developer with expertise in **Java**, **JavaScript**, **Python**, and **C++**, specializing in building and troubleshooting **full-stack applications**. Passionate about problem-solving, debugging, and deploying scalable software solutions. Experienced in both independent projects and team collaborations, with a strong analytical mindset, excellent communication skills, and a focus on delivering efficient, well-tested code.

## Education

- **Bachelor of Computer Science** – University of Maryland Global Campus – July 2023 (Cum Laude, 3.8 GPA)
- **Associate of General Studies** – College of Southern Maryland – June 2020
- **Towson University** – 8/2017–5/2021

## Certifications

- Full Stack Development
- Web Development
- Java, Python, C++, JavaScript, React

## Projects

- [Pirate Plunders Game](#)
  - Collaborated with a team of 4 to develop and debug front-end game mechanics using **JavaScript** and **React** for a pirate-themed, Space Invaders-inspired game.
  - Integrated **front-end** and **back-end** code to ensure a smooth and engaging user experience.
  - Successfully deployed the game as a live website using **Vercel**, expanding accessibility due to its growing popularity
- [Avionics Systems Simulation](#)
  - Developed an aircraft sensor simulation program using **C++** and **Python**, integrating **machine learning** algorithms for advanced data analysis.
  - Leveraged real-time GPS data through the **OSM API** to enhance simulation accuracy.
  - Designed the program with scalability in mind, supporting increasingly complex simulations.
- [SmartFin](#)
  - Built a **Java**-based financial tool for loan calculations, expense tracking, and savings projections.
  - Automated expense categorization using a **Naïve Bayes classifier** and ensured secure password storage with encryption and file I/O for data persistence.
  - Developed a financial report generator consolidating loans, transactions, and savings insights.
  - Applied **JUnit** testing to ensure accuracy and reliability of all features.

## Experience

<b>Tactical Institute</b>	Threat Specialist Remote	January 2016 – December 2017
<ul style="list-style-type: none"><li>• Identified and geo-located 20+ security threats using data analysis techniques.</li><li>• Led evidence-gathering efforts, collaborating with law enforcement agencies to provide actionable intelligence.</li></ul>		
<b>Target</b> - Team Member	Timonium, MD	10/2020 - Present
<b>Mothers North Grille</b> - Bar Back	Timonium, MD	8/2017-2/2020