Tyler Spring

Cockeysville, MD

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Summary

Software Developer with expertise in Java, Python, C++, and JavaScript. Specializes in building robust, scalable applications. Strong problem-solving skills with experience in real-time simulations, financial software, and game development. Passionate about writing clean, efficient code and collaborating with teams to deliver impactful solutions.

Education

- **B.S. in Computer Science** — *University of Maryland Global Campus* (2023, Cum Laude, 3.8 GPA)
- **A.A. in General Studies** — *College of Southern Maryland* (2020)

Technical Skills

- **Languages:** Java, Python, C++, JavaScript
- **Tools/Frameworks:** React, Node.js, JUnit, Maven, Git
- **Training:** Codecademy Full Stack, Java, Python, C++ Tracks

Projects

- Pirate Plunders Game **| JavaScript, React | Deployed with Vercel**
  - Developed a pirate-themed, Space Invaders-inspired game in a 4-person team.
  - Integrated front-end and back-end for seamless user experience.
  - Deployed live on Vercel, expanding accessibility and user engagement.
- JavaBookReview **| Java**
  - Currently solved 70+ Java programming problems with focus on algorithms and data structures.
  - Analyzed time/space complexity (Big O) for optimal solutions.
  - Strengthened foundation in code readability and modularity.
- Avionics Systems Simulation **| C++, Python**
  - Simulated aircraft systems using GPS data via the OSM API and machine learning for analysis.
  - Designed a scalable system for complex real-time simulations.
- SmartFin **| Java, JUnit, Maven**
  - Built budgeting tool with loan calculators and reporting features.
  - Implemented Naïve Bayes classifier for transaction categorization.
  - Ensured accuracy with JUnit tests and encrypted file I/O for data security.

Experience

Target – Team Member

Timonium, MD | Oct 2020 – Present

- Maintained inventory flow and supported high-volume operations. Built strong communication and multitasking skills in a fast-paced environment.

Tactical Institute – Threat Analyst

Remote | Jan 2016 – Dec 2017

- Identified and tracked over 20 security threats using open-source intelligence.
- Collaborated with law enforcement to compile actionable intelligence reports.
- Gained experience in data interpretation and pattern recognition.

Mothers North Grille – Bar Back

Timonium*, MD | Aug 2017 – Feb 2020*

- Assisted in bar operations, managed inventory, and ensured smooth service.
- Developed teamwork and multitasking skills in high-pressure environments.