

Johnathan Bill

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SKILLS

- **Programming Languages:** VB, C#, Java, TypeScript/JavaScript, Python
- **Frameworks & Tools:** Blazor, Word macro development
- **Web Development:** Web application development, headless solutions, scripting
- **Software Development Practices:** Dependency management, vulnerability detection, design, implementation, Agile, Object Oriented Programming, SCRUM.

WORK EXPERIENCE

West Virginia State Legislature

Software Engineer - LASD

August 2023 – Present

Charleston, WV

- Manage 3 main Blazor applications and 2 sub applications, along with 200+ VBA/C# Word macros used among different groups in the capital to reduce human error by 32% and increase general efficiency.
- Created and maintained an error diagnostics application that logs errors across a variety of applications and serves them in a readable format to the developers.
- Coordinated with IT teams to ensure 99.9% data integrity when handling data transmission.
- Improved macro efficiency by 35% by modifying them to work with PDFs as a headless solution.

West Virginia University

Tutor & Programming Lab Aid

Sep. 2020 – May 2023

Beckley, WV

- Tutored 10-20 students in programming twice a week, helping them grasp important concepts and increasing test scores by 5%.
- Assisted professors in managing programming lab sessions, helping students and explaining topics.

TC Energy

Application Developer - Intern

May 2022 – Aug. 2022

Charleston, WV

- Assisted in resolving user-submitted tickets in existing programs, ensuring efficiency and security.
- Built an Angular/TypeScript web application with 2 interns to track internal software tickets and dependencies.
- Developed a Python script to detect dependencies with known vulnerabilities and automatically email application managers with the information, improving vulnerability management and response times.

EDUCATION

West Virginia University Institute of Technology

Bachelor of Science in Information Systems

May 2023

Beckley, WV

- Graduated *cum laude* with a GPA of 3.53/4.0 and a minor in Computer Science following the Cybersecurity and Advanced Programming routes
- Vice Chair of the WVU Institute of Technology (WVU Tech) Chapter of the Association of Computing Machinery (ACM)
- Organized the largest student-run event on campus, boosting WVU Tech ACM's membership.

PROJECTS

Web Portfolio

HTML, CSS, JavaScript, GitHub, GitHub Pages

- Designed and implemented a portfolio to show off personal accomplishments.

- Implemented a custom router using JavaScript

Sand Simulation

- Created a particle-based physics engine based off the game Dust; handles multiple interactions between different particles.

Pygame, Python, GitHub, WebGL