

# Johnathan Bill

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## SKILLS

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- **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

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### 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

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### 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

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### 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**

*Pygame, Python, GitHub, WebGL*

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