Michael Boling

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Education

Missouri State University, Bachelor of Science in Computer Science — Aug 2021 – May 2024
Minor in Mathematics — Springfield, MO
- Cumulative GPA: 3.58/4.0 | Honors: Cum Laude, Dean's List (4 semesters)

Skills

- Programming Languages & Frameworks: C, C++, C#, Java, JavaScript, Python, SQL, Spring Boot, React, REST APIs.
- Front-End & UI Design: HTML, CSS, Bootstrap.
- Database, Tools & Platforms: MSSQL Server, MySQL, PostgreSQL, Selenium, Visual Studio Code, Visual Studio, Maven, Git/GitHub, Linux (Ubuntu, WSL), Windows.

Project Experience

Web Development - Login Project — Mar 2024 – Apr 2024
- Planned and led development of a Spring Boot login web application, integrating front-end technologies and ensuring functionality and quality through structured testing.
- Implemented MySQL integration with Spring Data JPA for secure user authentication and role-based access control.
- Optimized the system to process 1,000 simultaneous login requests, including 500 valid and 500 invalid, with 100% precision and minimal latency during a 10-second ramp-up.
- Tested 50 input scenarios, ensuring web server accuracy, response times within 1-2ms, and security.
- Code Repo: `github.com/michaelboling777/loginDemo`

Software Engineering - Custom Game Engine and Editor — Aug 2023 – Dec 2023
- Developed a 2D game engine and editor as part of a team using Object Oriented Programming principles, integrating art, terrain, characters, and collision detection, while learning new game development techniques.
- Coordinated project management for 5 scrolling backgrounds, adding features to enhance system architecture and gameplay.
- Designed a system with default 12-frame animations for 2D game characters, including idle, running, and jumping, customizable for different visuals and actions.
- Created a grid system that adapts to screen sizes, supporting over 1,000 grid cells, achieving efficient element placement and smooth performance.
- Demo: `youtu.be/ehZlIvxbd8U` | Code Repo: `github.com/michaelboling777/450proj`

Web Development - Personal Portfolio Website — Jan 2024 – Mar 2024
- Developed a responsive portfolio website using React.js and Bootstrap, featuring an interactive algorithm visualization system for searching and pathfinding algorithms.
- Implemented dynamic UI components with CSS3 animations and client-side form validation for enhanced user experience.
- Optimized performance across devices while maintaining smooth animations and fast load times.
- Live Site: `https://michaelboling.com` | Code Repo: `github.com/michaelboling777/Michael_PortfolioWebsite`

Work History

Delivery Driver, Domino's – Nixa, MO — Oct 2018 – Aug 2022
- Developed strong communication and customer service skills while maintaining high academic performance as a working college student.