JAMES WATSON
Software Developer

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LINKEDIN | GITHUB | PORTFOLIO

EDUCATION & TRAINING

Coding Dojo | *Full-Stack Developer Certificate*   Seattle, WA | 2023
- *Immersive Full-Stack Training Program in Python, C#, and MERN 1000+ hours of programming experience in 14 weeks.*

Winthrop University | *Bachelor of Science in Biology*   Rock Hill, SC | 2018

TECHNICAL SKILLS

LANGUAGES: JavaScript (node.js) Python, HTML5, CSS, C#, SQL

FRAMEWORKS: React.js, Express.js, Django, Jinja2, Flask, ASP.NET Core, .NET

DATABASE & LIBRARIES: MongoDB, MongoDB Atlas, MySQL, NoSQL, Firebase

TOOLS: Bootstrap, Tailwind, Socket.IO, MySQL Workbench, Postman, JSON, AJAX, REST API, Git, Github, AWS

SOFTWARE PROJECTS

Full-Stack Developer | JibJab - **Github Demo**   **TECHSTACK: C#/.NET, ASP.NET CORE, MySQL, Bootstrap**

Built a full-stack blog application where users can post what's on their minds. Users can update and delete their posts if they choose to. Users can comment on another user's post.

- Designed the overall architecture of the blog application, considering scalability, performance, and security.
- Developed an intricate system incorporating stringent input validations, ensuring data integrity and security while maintaining a user-friendly experience.
- Created a login/registration system within the application to prioritize user privacy and authentication protocols.
- Merged Bootstrap to design an aesthetically pleasing and responsive user interface, providing a visually engaging platform for content creation and consumption.
- Implemented unit testing to ensure the app is functioning properly.

Full-Stack Developer | The Rizz App - **Github Demo**   **TECHSTACK: MongoDB, Express, React, Node**

Built a full-stack React application for anyone who wants to communicate with family and friends. The chat application allows users to instantly message other users, create group chats, and receive live notifications. I was inspired to create this app to communicate with my family back in SC.

- Designed and developed an intuitive user interface using Chakra UI within the React framework, enhancing user experience with features such as message threading and responsive design, contributing to a user-friendly and visually appealing chat platform.
- Enhanced security and privacy by developing a login/registration page with validations.
- Implemented Socket.io to enable seamless, real-time communication between users to ensure a responsive and interactive chatting experience.
- Harnessed Node.js for routing and utilized MongoDB to store user information and chat messages by implementing efficient data management and retrieval through Mongoose.
- Implemented test-driven development (TDD) to avoid uncaught bugs and ensure efficiency throughout development.

PROFESSIONAL EXPERIENCE

Biologist | *Environmental Science Associates*   Seattle, WA | 2021-2023
- Examined over 100 stream assessments, wildlife and rare plant surveys, and wetland delineations, demonstrating a consistent application of problem-solving skills in daily activities to reduce environmental impacts in the area of study.
- Led critical habitat monitoring throughout multiple counties in WA for mitigation purposes, showcasing a proactive approach to identifying and addressing environmental challenges which correlated to a significant increase of vegetation that created habitats for wildlife within two years.
- Engaged with clients to understand their concerns and requirements, actively providing insights and solutions to resolve environmental issues to develop the best plan of action to complete the required tasks promptly.
- Collaborated with team members to address technical and logistical aspects of projects to determine effective teamwork in solving multifaceted challenges.
- Collected, interpreted, and analyzed field survey data to draft technical reports under federal, state, and local guidelines that influenced the clients to comply within their jurisdiction while constructing their worksite.

Environmental Scientist | *Herrera Environmental Consultants*   Seattle, WA | 2020-2021
- Examined stormwater runoff throughout Redmond, WA to measure and identify nutrients that caused pollution in local streams and bodies of water.
- Played a key role in completing environmental site assessments and provided remediation recommendations to influence the success of the client's project.
- Studied ground and surface water monitoring and sediment analysis, emphasizing attention to detail and adherence to quality control measures to successfully meet client deadlines.