JONATHAN BLUHM

Software Engineer

📞 719-243-9318　✉ bluhmjc@gmail.com　🏠 Houston, Texas

Technical Skills

Languages: C#, Java, Python, Typescript, Javascript, C, SQL, Bash, HTML, CSS

Technologies: Linux, Windows, Asp.Net Core, Msbuild, Docker, Powershell, Git, MS SQL Server, Azure DevOps, Linq

Other: Data Structures and Algorithms, Agile, Code Reviews, REST, Microservices, Distributed Systems, API Design

Experience

Geico　　2023 – Present
Engineer II　　*Remote*

- Enhanced the quality and reliability of the GEICO web application by integrating automated end-to-end tests using Playwright, covering key functionalities in a React and .NET-based UI.
- Developed and integrated robust .NET exception handling and logging mechanisms to quickly diagnose and address problems, improving overall system reliability.
- Implemented over 50 new and improved unit tests using MSTest, increasing test coverage by 60% and enhancing robustness, which led to increased reliability and early detection of issues.
- Designed and rolled out a feature that enabled agents to adjust data values obtained from the motor vehicle records system, leading to a 10% improvement in data integrity and reliability.
- Engineered a process that reduced testing time from 20 minutes to 1 minute, enhancing work efficiency and throughput.
- Updated systems to allow drivers with suspended licenses to get a quote, potentially generating up to $150,000 a year in revenue.

Sphere Commerce　　2022 – 2023
Software Engineer　　*Westminster, Colorado*

- Enhanced the stability of a multi-threaded .NET payment application by identifying and resolving concurrency issues, leading to a 15% reduction in transaction processing errors.
- Saved $300/month in Azure costs by identifying and plugging a memory leak in the Cosmos DB service.
- Debugged and corrected 10+ sporadically failing xUnit tests which led to a 30% increase in successful CI builds.
- Cleaned up unnecessary logs made by the logging service, reducing the amount of data logged to Splunk every day from 200 GB to 10 GB.
- Spearheaded the resolution of timestamp anomalies in Splunk logging through a customized technical intervention; the new system improved time tracking accuracy by 500%, elevating the dependability of logging operations.
- Rectified socket exhaustion through correction of non-static HTTP client usage, leading to a 50% reduction in server errors and improved system stability.

Dish Network　　2021 – 2022
Software Engineer I　　*Superior, Colorado*

- Built .NET software applications for the Dish Network uplink center that allow internal teams to monitor over 6000 TV channels in real-time.
- Led the transformation of a .NET MVC UI into a responsive Single Page Application (SPA) using modern JavaScript frameworks, significantly improving user experience and application performance.
- Overhauled continuous integration (CI) and continuous delivery (CD) pipelines leading to 50% faster builds.
- Integrated Node.js into a 6 year old website to allow for dependency management and Mocha.js unit testing.
- Responded promptly to alerts from Zabbix, maintaining system uptime above 95%.

United States Navy　　2013 – 2017
Nuclear Electrician　　*Groton, Connecticut*

- Functioned as an integral part of a watch team to maintain smooth operation of the reactor plant during complex evolutions.
- Maintained the vital documentation for maintenance and history of the reactor control system.

Education

University of Colorado Boulder　　2019 – 2021
Bachelor of Science in Computer Science　　*Boulder, Colorado*