

JONATHAN BLUHM

Software Engineer

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

Experience

Geico **September 2023 – August 2024**
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.
- Engineered an automated quote generation process, significantly accelerating testing workflows and reducing execution time from 20 minutes to 1 minute for routine tests.
- 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.

Sphere Commerce **October 2022 – September 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 **September 2021 – October 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.
- Modernized a 6-year-old website by integrating Node.js, enabling efficient dependency management and Mocha.js unit testing.
- Ensured high system reliability by swiftly addressing Zabbix alerts, maintaining system uptime above 95%.

Education

Bachelor of Science in Computer Science **May 2021**
GPA: 3.76 *University of Colorado Boulder*

Skills

Languages: C# | Java | Python | TypeScript | JavaScript | C | SQL | Bash | HTML | CSS

Technologies: Linux | ASP.NET | Cosmos DB | Azure DevOps | Git | Docker | Node.js | jQuery | React | Splunk

Other: Data Structures and Algorithms | Agile | REST | Microservices | Distributed Systems | API Design | CI/CD