JONATHAN BLUHM

Software Engineer

📞 719-243-9318 ✉ bluhmjc@gmail.com 🏠 Westminster, Colorado

Technical Skills

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

Technologies: Linux, Windows, Asp.net Core, Node.js, Msbuild, Docker, Gitlab CI, Azure DevOps, Splunk, Powershell

Other: Data Structures and Algorithms, Agile, Unit Testing, Code Reviews, REST, Microservices, Distributed Systems

Experience

Geico   2023 − Present
Engineer II   *Remote*
- Engineered a process that reduced testing time from 20 minutes to 1 minute significantly enhancing team efficiency and throughput.
- Enhanced an Azure function by implementing a robust exception hierarchy and structured logging, improving error handling and system monitoring capabilities.
- Updated systems to allow drivers with suspended licenses to get a quote, potentially generating up to $150,000 a year in revenue.
- Collaborated with 100+ Engineers to develop a new Independent Agent commercial insurance product that can save agents 2 hours each day.
- Revamped an Azure function by implementing acceptance tests, resulting in a 40% reduction in bugs identified post-release and a 30% increase in overall system stability.
- Led knowledge share webinars in Webex.

Sphere Commerce   2022 − 2023
Software Engineer   *Westminster, Colorado*
- 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 our logging service, reducing the amount of data logged to Splunk every day from 200GB to 10GB.
- Resolved timestamp issues in Splunk logging by implementing a solution to ensure accurate time tracking, enhancing the reliability and effectiveness of logging processes.
- Rectified socket exhaustion through meticulous correction of non-static HTTP client usage, leading to a 50% reduction in server errors and improved system stability.
- Created documentation for complex systems to aid new developers.

Dish Network   2021 − 2022
Software Engineer I   *Superior, Colorado*
- Developed software applications for the Dish Network uplink center that allow internal teams to monitor over 6000 TV channels in real-time.
- Refactored website to be a single page application allowing for interactive UI features.
- 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%.
- Mentored new team members.

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.
- Solved problems efficiently by referencing manuals and textbooks.
- Retained the vital documentation for maintenance and history of the reactor control system.
- Communicated effectively with peers from a wide variety of disciplines and backgrounds.

Education

University of Colorado Boulder   2019 − 2021
Bachelor of Science in Computer Science   *Boulder, Colorado*
- GPA: 3.76
- Course Work: Linux System Admin, Network Systems, Operating Systems, Robotics, Algorithms, Human-Computer Interaction, Data Structures, Cybersecurity, Machine Learning, Calculus 1-3, Probability and Statistics, Linear Algebra