Jonathan Bluhm

Westminster, Colorado
719-243-9318 bluhmjc@gmail.com github.com/johnnybluhm

Summary

Deep thinking, adaptable computer scientist with a passion for programming. Cursed with a never ending thirst for knowledge. Addicted to figuring out how things work. Blessed with a desire to be challenged in new ways.

Technical Skills

Languages: C#, Java, Python, Typescript, Javascript, C, SQL, Bash, HTML, CSS
Technologies: Linux, Windows, Asp.net Core, Node.js, Msbuild, Maven, Gitlab CI, Azure Devops, Splunk, Microservices
Other: Data Structures and Algorithms, Agile, Unit Testing, Code Reviews, REST, Shell Scripting

Experience

Sphere Commerce — 2022 – Present

Software Engineer — *Westminster, Colorado*

- Worked with a team of nine engineers to improve the stability of the integrated payment application. The integrated payment application is a multithreaded, microservice architecture, cloud based application that processes payments for thousands of clients across the United States.
- Cleaned up unnecessary logs made by our logging service, reducing the amount of data logged to splunk every day from 200GB to 10GB.
- Identified and corrected a memory leak in a long running process. The fix allowed us to change the machine it was running on from an i2 to an i1 instance, saving around $300/month.
- Fixed unit tests that would periodically fail. Due to the multithreaded nature of the integrated payment application, certain unit tests would fail due to timing issues. Many of these were fixed, leading to far quicker builds and easier development.
- Improved the logging service to use correct timestamps, greatly aiding developers in their debugging.
- Identified and corrected mistakes found during code reviews, leading to far fewer production bugs.

Dish Network — 2021 – 2022

Software Engineer I — *Superior, Colorado*

- Worked closely with eight other engineers to design, develop, deploy, and maintain software applications for the Dish Network uplink center. These applications provide monitoring solutions and IT support for uplink center workers.
- Upgraded six year old website to use modern web development tools. The older website had no modules and tests, so I integrated node.js into the project to allow for dependency management and testing. Developers can now easily modify and expand the website and be confident of their changes.
- Changed a web application design from a multi page application to a single page application. This allowed for interactive UI features to be added that could not have been in the old design. It also sped up the system by allowing some requests to be made in parallel, whereas before they had to be done sequentially. It also decreased the time of development; in the old design it was much harder to implement certain features.
- Integrated a web application with another service that our team provides. The integration of these services saves operators hours when performing certain tasks.
- Secured web APIs with a new Json Web Token security scheme. Also, upgraded my team's knowledge on Json Web Tokens, improving security for future projects.
- Handled on-call issues from stakeholders, saving the company money by minimizing downtime of our applications.
- Mentored new team members, allowing them to contribute to projects with confidence.

United States Navy — 2013 – 2017

Nuclear Electrician — *Groton, Connecticut*

- Functioned as an integral part within 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