**Clay Buxton ­­­­­**

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# Experience

**DevOps Engineer** at **greymatter.io** | Remote from Greater Philadelphia Area Since Jan 2022

* **Member of the Product Operations team** working with SREs, Customers, and the Product Development team.
* **Built customized tools for integration of the Grey Matter platform** with customer tools and other CNCF components, to build customer infrastructure in hybrid and/or multi-cloud implementations.
* **Created resources on customer need** including but not limited to, hardened customized containers, networking configurations, infrastructure architecture, cloud environments, CI pipelines, and development of proof-of-concepts.
* Communications between internal tooling teams, product development, and customers.
* Extensive work with **Kubernetes, Docker, AWS, Azure, Terraform, Ansible, and more.**

**DevSecOps Engineer II** at **Lockheed Martin |** King of Prussia, PA May 2020 – Dec 2021

* **Internal operations support for a group of ~120 developers**. Primary RHEL Admin and DevOps Engineer.
* **Developed and automated CI/CD Pipelines.** Provided builds, hosted repositories, automated testing, static code quality and security analysis in a quick, consistent, and accurate environment on Windows, RHEL and in containers.
* Architected, implemented, secured, and automated all **Linux assets in the environment**.
* **Architected Kubernetes and Docker implementations** and designed hardened containers based on requirements.
* Implemented DoD Risk Management Framework for OS hardening and security controls, automated with Ansible.

**Systems/Software Engineering Intern** at **Lockheed Martin** & **Clair Global**  May 2017-April 2020

* Engineering work with **Java, C++, GNU Radio on a large, micro-service driven,** command and control application.
* Administration work with **Windows, Linux, Unix environments, networking,** and more
* Extensive work on **agile teams, working with classified material, and creating automation systems**.
* Developed telemetry software using **Telegraf, ElasticSearch, InfluxDB and Grafana** to monitor assets in use at live shows and concert venues.

# Projects

**HomeLab | Personal Project**  Since 2016

A continuing project in learning more about networking, security, and DevOps. “JuiceCloud” is a home datacenter running a Kubernetes cluster. JuiceCloud serves as a testing environment for new technologies, a private media server, development server, home automation platform, game host, backups, and cloud file access. Services are used by a small, active group of friends and family. JuiceCloud is a production environment with all services using TLS, with SSO logins and identity management, distributed storage, with load balanced/high availability services. JuiceCloud is segmented from other home traffic using VLANs and firewall rules on enterprise networking equipment.

**Cosmic | Senior Project** August 2019 – May 2020

Cosmic is a fully simulated 8-bit computer architecture. The entire architecture and instruction set was created from scratch and works in a rich environment. The environment includes a debugger, a full-fledged GUI and an assembler.

Cosmic is hard to explain in words, but better in code: <https://github.com/clbx/Cosmic>

It’s because word sucks and you can’t make lines as tall or short as you want. So, screw you Microsoft I’m smarter.

**LoveCube | Personal Projects**  July 2020

LoveCube is a wireless message box based off the ESP32 written in C++. I built a circuit that connected notification LEDs and an OLED screen to an ESP32 to display messages that it pulls off a central server. The server is written in Python and uses a MySQL database to store messages sent to it by the users. I also modeled and 3D printed the enclosure that it’s housed in. Software and designs are available on GitHub: <https://github.com/clbx/LoveCube>

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# Skills & Abilities

**Languages:** C++, Go, C#, Bash, Python, Java, Swift, SQL, HTML/CSS, JavaScript, TypeScript.

**Platforms:** Linux, Git, AWS, Azure, Kubernetes, Docker, Terraform, Ansible, CI/CD, Helm, Infra as Code, GitOps, Pulumi

# Education & Certifications

**Georgia Institute of Technology** | Master of Science | Online 3.7 GPA | May 2023

* M.S. Computer Science. Computational Systems Specialization

It’s because

**Elizabethtown College** | Bachelor of Science | Elizabethtown, Pa 3.42 GPA

* B.S. Computer Engineering, B.S. Computer Science

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**Top Secret Level Department of Defense Security Clearance**