

---

## Experience

### DevOps Engineer at greymatter.io | Remote

Since Jan 2022

- **Member of the SRE team** working with customers to architect, deploy, and configure the Grey Matter service mesh.
- **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.
- Extensive work with **Kubernetes, Docker, Cloud Environments, 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 systems administration. "JuiceCloud" is a home networking setup and hybrid cloud which is made of enterprise grade equipment and AWS resources. JuiceCloud is wholly Infrastructure as Code being entirely stood up using Terraform, Ansible and similar technologies.

### 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>

### 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>

### Otis | Elizabethtown College

January 2019 – May 2019

An affectionally named neural networking algorithm, Otis was developed by 5 students on an Agile team where I acted as our scrum master. Otis can learn based on binary data and make reasonably accurate assumptions about the data.

Otis' development was fully automated with CI/CD, unit testing, automatic documentation, and code coverage.

All code is available on GitHub: <https://github.com/etown-blue-team/Otis>

---

## Skills & Abilities

**Languages:** C++, Golang, C#, Bash, Python, Rust, Swift, MySQL, HTML/CSS, Java/TypeScript.

**Platforms:** Linux, Git, Cloud Platforms, Kubernetes, Docker, Terraform, Ansible, CI/CD, Helm, Infrastructure as Code, GitOps.

---

## Education & Certifications

### Georgia Institute of Technology | Master of Science | Online

3.83 GPA | May 2023

- M.S. Computer Science. Specializing in Computational Systems

### Elizabethtown College | Bachelor of Science | Elizabethtown, Pa

3.42 GPA | May 2020

- B.S. Computer Engineering, B.S. Computer Science

### Secret Level Department of Defense Security Clearance