

# KLAIRE CURDE

Software and DevOps Engineer.

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## EXPERIENCE

**DevOps Engineer Co-op** | Council Rock | 📅 May 2022 - August 2022

- Maintained an RKE Kubernetes deployment of the Thingsboard IoT application with custom modifications.
- Developed a new Docker Compose deployment for external services.
- Managed a Proxmox cluster, and set up build vms with optimized multi-stage Docker BuildKit builds.

Kubernetes Docker Docker Compose AWS Proxmox

**Software Engineer Co-op** | Council Rock | 📅 Aug 2021 - Dec 2021

- Implemented the CoAP protocol in C++ using the libcoap C library.
- Communicated with the ThingsBoard IoT Software's REST API via CoAP.

C++ C Linux CoAP IoT

**Software Engineer Co-op** | LightRiver Software | 📅 Jun 2021 - Aug 2021

- Designed and implemented an ingress controller in C and used a reverse proxy with Apache to act as middleware for REST API requests.
- Wrote new features and enhancements for the netFLEX application using C, JavaScript, and JSON on Linux.

C Linux Apache PostgreSQL HTML/CSS JS

**Software Engineer Co-op** | Bryx Inc. | 📅 Summer 2023

- Wrote a secure job submission page with form validation for fire chiefs to submit details into autonomous reporting systems.

TypeScript React Semantic UI SQL

## PROJECTS

**Guestbook**

🐙 github.com/klairecodes/guestbook

- Created a Content Delivery Application for cabin guestbooks using protocol buffers, sqlx, and the highly scalable Rust Tokio runtime.

Rust gRPC Protobuf Podman SQLx S3

**Sparsr**

🐙 github.com/klairecodes/sparsr

- Used the OpenCV Python API and Whisper AI to capture timestamps and screenshots of videos where a searched phrase was said.

Python OpenCV Whisper AI Podman

**RITlinks**

🔗 <https://ritlinks.csh.rit.edu> 🐙 github.com/klairecodes/ritlinks

- A site to dynamically generate a list of all the websites RIT makes available to students as well as their uses.
- Runs in a Docker container and is deployed on an OKD 4 cluster.

Python Django Docker OKD Bootstrap 4

## EDUCATION

🏠 **Rochester Institute of Technology**  
Computer Science B.S. 📅 Expected: May 2024

## SKILLS

**Languages**

Python C C++ Rust JavaScript  
TypeScript Java Go Bash  
HTML/CSS SQL LaTeX

**Tools**

Linux Docker Nginx Kubernetes  
Openshift/OKD Proxmox Ceph  
PostgreSQL Django AWS Protobuf  
gRPC

## ACTIVITIES

🏠 **Computer Science House**

SysAdmin Director | 📅 May 2021 - Oct 2022  
System Administrator | 📅 Oct 2020 - Present  
Member | 📅 Aug 2019 - Present

- Spearheaded a **\$1.2 million+ server hardware donation** from Wayfair's decommissioned datacenter.
- Featured in a **Google Cloud** article.
- **Rebuilt an enterprise-grade datacenter** with the modern hardware we received as part of a team.
- Nearly **five years** of experience maintaining a datacenter running OKD k8s, Proxmox, Ceph, FreeIPA, DataDog, assorted databases, and many web services.
- **Directed a team** of system administrators and stayed in this leadership position within the organization for about two years.

📺 **Reporter Magazine**

Sysadmin | 📅 May 2021 - May 2023

- Responsible for maintaining the frontend and infrastructure for reporter.rit.edu, a student-run magazine publication.

🏠 **RIT Residence Life**

Resident Advisor | 📅 Aug 2020 - May 2021

- Acted as a leader figure for a dorm floor.