

# KLAIRE CURDE

Software and DevOps Engineer.

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## EXPERIENCE

**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

**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

## 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

DataDog

Puppet

## 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.