

# KLAIRE CURDE

Software and DevOps Engineer.

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## EXPERIENCE

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

- Developed 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 created 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.
- Integrated with 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 using a reverse proxy with Apache for REST API requests.
- Enhanced the netFLEX application with new features 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

- Utilized 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

- Developed a site to dynamically generate a list of all websites RIT makes available to students and their uses.
- Deployed on an OKD 4 Kubernetes cluster.

Python

Django

Docker

OKD

Bootstrap 4

## EDUCATION

🏠 Rochester Institute of Technology

B.S. in Computer Science

📅 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 - May 2024

Member

📅 Aug 2019 - For life

- 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 modern hardware.
- Led a team of system administrators for **two years**, and spent **five total years** maintaining a datacenter running OKD k8s, Proxmox, Ceph, FreeIPA, DataDog, assorted databases, and web services.

📺 Reporter Magazine

Sysadmin

📅 May 2021 - May 2023

- Maintained 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 for a dorm floor.

🍷 WSET Level 2 Certification

- Demonstrated knowledge of various wine regions, grape varieties, and wine tasting techniques.