

# KLAIRE CURDE

## Software and DevOps Engineer.

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## EXPERIENCE

### DevOps Engineer Co-op May 2022 - August 2022

#### Council Rock - Vista

- 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 instance, and set up a build vm with optimized multi-stage Docker BuildKit builds.

Kubernetes

Docker

Docker Compose

AWS

Proxmox

### Software Engineer Co-op Aug 2021 - Dec 2021

#### Council Rock - Vista Agent

- 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 Jun 2021 - Aug 2021

#### LightRiver Software - netFLEX

- 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.
- Implemented access logging and user access control permissions with PostgreSQL.

C

Linux

Apache

PostgreSQL

HTML/CSS

JS

## PROJECTS

### RITlinks

 [github.com/klauscurde/ritlinks](https://github.com/klauscurde/ritlinks)

 <https://ritlinks.cs.house>

- Developed a website using Django and self-created Bootstrap 4 templates 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.
- Implemented administrator accounts to manage adding and removing content with drag-and-drop controls and forms.
- Helps new students understand which services do what, and was well received by incoming freshmen and current students.

Python

Django

Docker

OKD

Bootstrap 4

### HuntedRC Car

 [github.com/Hunted\\_RC\\_Car](https://github.com/Hunted_RC_Car)

- Programmed and designed the electronic internals of a remote control car that can be controlled from up to 1 kilometer away.

C++

Electronics

Robotics

Arduino

## EDUCATION

### Rochester Institute of Technology

#### Computer Science B.S.

 Expected Graduation: May 2024

## SKILLS

### Languages

Python

C

C++

JavaScript

TypeScript

Java

Rust

Go

Bash

HTML/CSS

SQL

LaTeX

### Tools

Linux

Docker

Git

Bootstrap

Apache

Kubernetes

Openshift/OKD

Proxmox

Ceph

PostgreSQL

Django

Arduino

AWS

LDAP

iLO

Cisco IOS

## ACTIVITIES

### Computer Science House


#### System Administrator Director

 May 2021 - Oct 2022

#### System Administrator

 Oct 2020 - Present

#### Member

 Aug 2019 - Present

Led and organized an \$1.2 million+ server hardware donation, featured in a Google Cloud article, and subsequently installed and maintained the systems as part of a team. Currently maintaining services running on this hardware for a student-run server room including an Openshift/OKD 4 cluster, Proxmox cluster, FreeIPA user management, Ceph distributed storage, databases, mail server, MediaWiki, and various web services.

### Reporter Magazine

#### Web Developer & Sysadmin

 May 2021 - May 2023

Responsible for maintaining the frontend and infrastructure for reporter.rit.edu.