KLAIRE CURDE

Software and DevOps Engineer

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(724) 718-7281

github.com/klairecodes

in linkedin.com/in/klaire-curde

klaire.codes

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 multistage Docker BuildKit builds.

Kubernetes

Docker

Docker Compose

AWS Proxmox

Software Engineer Co-op |

Council Rock

a 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

i Jun 2021 - Aug 2021

JS

- 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.

Linux Apache

Software Engineer Co-op |

Bryx Inc.

Summer 2023

• Wrote a job submission page for fire chiefs to submit details into autonomous reporting systems.

PostgreSQL

TypeScript

React

Semantic UI

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

HTML/CSS

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 Al

Podman

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

Boostrap 4

EDUCATION

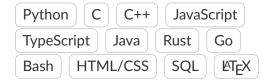
Rochester Institute of Technology A

Computer Science B.S.

Expected Graduation: May 2024

SKILLS

Languages



Tools



ACTIVITIES

System Administrator Director

- **May 2021 Oct 2022**
- Organized a \$1.2 million+ server hardware donation from Wayfair's decommissioned datacenter.
- Featured in a Google Cloud article.
- Currently maintaining the hardware and software for a student-run datacenter. Services include an OKD 4 Kubernetes cluster. Proxmox cluster, FreeIPA user management, Ceph distributed storage, multiple databases, mail server, MediaWiki instance, and various web services.

System Administrator

Oct 2020 - Present

Member

Aug 2019 - Present

Reporter Magazine

Web Developer & Sysadmin

May 2021 - May 2023

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