

KLAIRE CURDE

Software and DevOps Engineer.

@ kcurde@gmail.com

📞 (724) 718-7281

🐙 github.com/klairecodes

🌐 linkedin.com/in/klaire-curde

💻 klaire.codes

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

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

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

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.