KLAIRE CURDE

Software and DevOps Engineer

@ kcurde@gmail.com   📞 (724) 718-7281   🔗 linkedin.com/in/klaire-curde   github.com/klairecodes   klaire.codes

EXPERIENCE

DevOps Engineer Co-op 📅 May 2022 - August 2022
Council Rock

- 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

- 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.

`C` `Linux` `Apache` `PostgreSQL` `HTML/CSS` `JS`

PROJECTS

Guestbook
 github.com/klairecodes/guestbook

- Created a Content Delivery Application for cabin guestbooks with robust protobuf definitions and a highly efficient Rust runtime designed for scalability.

`Rust` `gRPC` `Protobuf` `Podman` `S3`

RITlinks
 github.com/klairecodes/ritlinks   🔗 https://ritlinks.csh.rit.edu

- Developed a website using Django and custom 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.

`Python` `Django` `Docker` `OKD` `Boostrap 4`

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`

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` `Nginx` `Kubernetes` `Openshift/OKD` `Proxmox` `Ceph` `PostgreSQL` `Django` `AWS` `Protobuf` `gRPC`

ACTIVITIES

Computer Science House 💻
System Administrator Director

📅 May 2021 - Oct 2022

• Facilitated 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.