

KLAIRE CURDE

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EXPERIENCE

Software Engineer Co-op

Bryx Inc. | Summer 2023

- Enhanced an EMS/firefighter job submission page with a modern stack.
- Migrated from class-based to efficient functional React + TypeScript.
- Focused on reliability, and integrated extensive first responder feedback.

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

Server Room Rebuild

cloud.google.com

- Led and organized an \$850,000+ server hardware donation from Way-fair's decommissioned datacenter for 9 months.
- Installed over three dozen machines from scratch running 1150 k8s pods for 400 projects, 170 VMs, and 500 terabytes of Ceph storage.

Kubernetes

Proxmox

Ceph

FreeIPA

Docker

OKD

Linux

Sparsr

github.com/klairecodes/sparsr

- Utilized the OpenCV Python API and Whisper AI to capture timestamps and screenshots of where a searched phrase was said in any video.

Python

OpenCV

Whisper AI

Podman

Kevlar

github.com/klairecodes/guestbook

- Implemented user-initiated channel blacklist capabilities for Slack.

Python

Podman

Kubernetes

Slack Bolt API

OKD

EDUCATION

Rochester Institute of Technology

B.S. in Computer Science

Earned May 2024

Psychology Immersion

AI/ML/LLM & Intelligent Security Concentration

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

- Administrated and installed over three dozen clustered servers running 1150 k8s pods for 400 projects, 170 Proxmox VMs, and 500 terabytes of Ceph storage.
- Mentored members about datacenter technologies and inspired them to contribute.
- Led a team of eight admins for two years, and spent five total years maintaining the datacenter for over 100 active users.

Reporter Magazine

Sysadmin

May 2021 - May 2023

- Maintained the frontend and infrastructure for a student-run magazine.
- Supported 30+ contributors and the entire student body audience.

RIT Residence Life

Resident Advisor

Aug 2020 - May 2021

- Supported and guided 50 dorm residents.

WSET Level 2 Wine Certification

Completed with Merit

May 2024

- Guest judged for the Great American International Wine Competition.