# KLAIRE CURDE

# Software and DevOps Engineer.

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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.

React Semantic UI TypeScript 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.

Docker **AWS** Kubernetes Docker Compose 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 | i 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.

Linux Apache PostgreSQL HTML/CSS

# **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.

OpenCV Python Whisper Al 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

- 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 Boostrap 4

# **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 | HTML/CSS Go Bash SQL ) [₽T<sub>F</sub>X

# Tools



# **ACTIVITIES**

# Computer Science House

SysAdmin Director

| May 2021 - Oct 2022

- Led 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, setting up over three dozen machines from scratch running 1150 k8s pods for 400 projects, 170 VMs, and 500 terabytes of Ceph storage.
- 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

| **a** Aug 2020 - May 2021

Supported and guided 50 dorm residents.

## **■ WSET Level 2 Wine Certification**

Completed with Merit

| **i** May 2024

• Guest judged for the Great American International Wine Competition.