# KLAIRE CURDE

**Software and DevOps Engineer**

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## 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**    | 📅 **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**    | 📅 **Jun 2021 - Aug 2021**

- 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 |

**Software Engineer Co-op** |    **Bryx Inc.**    | 📅 **Summer 2023**

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

| 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 |

**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 |

**RITlinks**    🔗 https://ritlinks.csh.rit.edu    ⦿ github.com/klairecodes/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** 🏛
Computer Science B.S. 📅 Expected: 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** 💻

| SysAdmin Director | 📅 | May 2021 - Oct 2022 |
| System Administrator | 📅 | Oct 2020 - Present |
| Member | 📅 | Aug 2019 - Present |

- 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 the modern hardware as part of a team.
- Nearly five years of experience maintaining a datacenter running OKD4 (Kubernetes), Proxmox, Ceph, FreeIPA, and various databases and web services.
- Directed a team of system administrators and stayed in this leadership position within the organization for about two years.

**Reporter Magazine** 📷

Sysadmin    📅 | May 2021 - May 2023

- Responsible for maintaining the frontend and infrastructure for reporter.rit.edu, a student-run magazine publication.

**RIT Residence Life** 🏛

Resident Advisor    📅 | Aug 2020 - May 2021

- Leader on a dorm floor resolving conflicts and mediating discussions.