KLAIRE CURDE

Software and DevOps Engineer.

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github.com/klairecodes

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klaire.codes

EXPERIENCE

Software Engineer Co-op

Bryx Inc. | Summer 2023

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• 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

- 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 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 RPC Protobuf Podman SQLx S

- 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



Tools



ACTIVITIES

Operation 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.
- Ensured maximum uptime with automatic certificate renewals, planned Drupal upgrades, and clear communication.

RIT Residence Life

Resident Advisor

| **i** Aug 2020 - May 2021

- Supported and guided 50 dorm residents.
- Responsible for their health and safety.

WSET Level 2 Wine Certification