KLAIRE CURDE

Software and DevOps Engineer

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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 cluster, and set up build vms 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

Software Engineer Co-op Summer 2023
Bryx Inc.

- 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
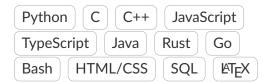
EDUCATION

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

- Organized 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