KLAUS CURDE

Seeking a Software and/or DevOps Engineer Co-op.

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EXPERIENCE

DevOps Engineer Co-op 📅 May 2022 - August 2022
Council Rock - Vista

- Maintained a custom RKE Kubernetes deployment of the Thingsboard application and our integrations.
- Developed a new Docker Compose deployment.
- Maintained a Proxmox instance, and set up a build server with optimized multi-stage BuildKit builds.

Kubernetes | Docker | Docker Compose | AWS | Proxmox

Software Engineer Co-op 📅 Aug 2021 - Dec 2021
Council Rock - Vista Agent

- 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.
- Implemented access logging and user access control permissions with PostgreSQL.

C | Linux | Apache | PostgreSQL | HTML/CSS | JS

PROJECTS

RITlinks
⬡ github.com/klauscurde/ritlinks   🔗 https://ritlinks.cs.house

- Developed a website using Django and self-created Bootstrap 4 templates 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.
- Implemented administrator accounts to manage adding and removing content with drag-and-drop controls and forms.
- Helps new students understand which services do what, and was well received by incoming freshmen and current students.

Python | Django | Docker | OKD | Boostrap 4

HuntedRC Car
⬡ github.com/Hunted_RC_Car

- Programmed and designed the electronic internals of a remote control car that can be controlled from up to 1 kilometer away.

C++ | Electronics | Robotics | Arduino

EDUCATION

Rochester Institute of Technology
Computer Science B.S. 3.48 GPA

📅 Expected Graduation: May 2024

SKILLS

Languages

Python | C | C++ | Java | Bash
HTML/CSS | SQL | LaTeX

Tools

Linux | Django | Docker | Git
Bootstrap | Apache | Kubernetes
Openshift/OKD | Proxmox | Ceph
PostgreSQL | Arduino | Vim

ACTIVITIES

Computer Science House
System Administrator Director
📅 May 2021 - Present
System Administrator
📅 Oct 2020 - Present
Member
📅 Aug 2019 - Present

Led and organized an $850,000 server hardware donation, and subsequently installed and maintained the systems as part of a team. Currently maintaining services running on this hardware for a student-run server room including an Openshift/OKD 4 cluster, Proxmox cluster, FreeIPA user management, Ceph distributed storage, databases, mail server, MediaWiki, and various web services.

RIT Residence Life
Resident Advisor
📅 Aug 2020 - May 2021

Responsible for enforcing university policy in the dorms. Was a leadership figure for new residents, and helped them adjust to college life by interacting with them and organizing events.