KLAUS CURDE

Software Engineer

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EXPERIENCE

Software Engineer Co-op | Jun 2021 - Aug 2021
LightRiver

- Wrote new features and enhancements for the netFLEX application using C, Linux/Unix, JavaScript, and JSON.
- Designed and implemented an ingress controller in C and used a proxy with Apache to act as middleware for REST API requests.
- Implemented access logging and user access control permissions with PostgreSQL.

System Administrator | Oct 2020 - Present
Computer Science House

- Responsible for managing linux based systems, websites and web services.
- Exposure to enterprise-level tech, including RHEL, OKD 4, Kubernetes, Docker, Proxmox, FreeIPA, and Datadog.
- Offer guidance to other members looking to learn devops skills or spin up their own projects.

SKILLS

Languages
- Java
- C
- Python
- Bash
- HTML
- CSS

Tools
- Linux
- Windows
- Django
- Arduino/MCU
- Docker
- SQL
- Bootstrap

ACTIVITIES

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

RIT Residence Life
Resident Advisor | Aug 2020 - May 2021

EDUCATION

Rochester Institute of Technology
Computer Science B.S. 3.48 GPA
📅 Graduation: May 2024 (5yr pgrm.)

PROJECTS

ritlinks
github.com/klauscurde/ritlinks

- Used the Python web framework Django to create a dynamically generated website that lists a collection of all the websites RIT makes available to students as well as their descriptions.
- Helps new students understand which services do what, and has administrator accounts to manage adding and removing sortable content as relevant.
- Runs in a Docker container on Openshift/OKD and uses a PostgreSQL database.

HuntedRC Car
github.com/klauscurde/Hunted_RC_Car

- Designed the electronic internals of a remote control car that can be controlled from up to 1 kilometer away.
- Uses an NRF24L01 wireless module with a self-designed wireless protocol, an L298N H-bridge motor controller, and Arduino Mega and Nano microcontroller boards.
- Coded in C++ and uses a custom designed controller. Internals are a prototype for modifying a Barbie Jeep to be wirelessly controlled as a safe, moving hunting target.

LifeSym
github.com/klauscurde/LifeSim

- Programmed a Java application that simulates the human body to provide health recommendations.
- Utilizes Metabolic Equivalent (MET) data values sourced from an academic paper to calculate an estimate of the amount of calories consumed during specific activities.