KLAUS CURDE

Software and DevOps Engineer seeking a Summer 2021 Co-op/Internship

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PROJECTS

HuntedRC Car | May 2018 - July 2020
github.com/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.

FTC Robotics Robot | Sep 2017 - May 2019
First Tech Challenge

- Supervised an FTC Robotics team as the lead programmer and one of its founding members.
- Wrote the codebase in Java using the ftc_app library.
- Designed manual and autonomous control with position sensing and telemetry.
- Advanced to a state-level competition.

CookC | Apr 2020
github.com/klauscurde/CookC

- Wrote a small game in Python that exists entirely as an array displayed in a character LCD.
- Runs on a Raspberry Pi Zero W that is connected to the internal power of a ThinkPad X230 laptop.

ritlinks | Aug 2020 - Present
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 content as relevant.
- Runs in a Docker container.

EXPERIENCE

System Administrator | Oct 2020 - Present
Computer Science House

- Manage Linux systems, websites, and web services in a server room for the RIT organization CSH.
- 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.

EDUCATION

Rochester Institute of Technology
Computer Science B.S. 3.54 GPA
Graduation: May 2024 (5yr pgrm.)

COURSES

Digital System Design 1

- Learned how to design, optimise, and implement circuits, including decoders, multiplexers, adders, flip flops, etc.
- Digital system simulation with VHDL.

Intro to Software Engineering

- A course that dove into software engineering practices.
- Worked as a group using the SCRUM Agile process.
- Learned the Spark framework and automated unit testing.

SKILLS

Java	●●●●●
Python	●●●●○
C	●●●●○
HTML	●●●○○
VHDL	●●○○○
Bash	●●○○○
CSS	●●○○○
Linux	●●●●●
Django	●●●●○
Docker	●●●○○
Bootstrap	●●●○○
Arduino/MCU	●●●●○

ACTIVITIES

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

RIT Residence Life
Resident Advisor | Aug 2020 - Present

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