KLAUS CURDE

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

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PROJECTS

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.
- Employs the Nginx webserver run on Fedora Linux.
- 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.

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.

LifeSym | Jan 2020 - July 2020
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.

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.

EXPERIENCE

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.
- Advanced to a state competition.
- Wrote the codebase in Java using the ftc_app library.
- Mentored other members for them to be able to continue maintaining the project.

EDUCATION

Rochester Institute of Technology
Software Engineering B.S. 3.54 GPA
Graduation: May 2024

COURSES

Digital System Design 1

- Currently learning how to design, optimise, and implement logical circuits, including decoders, multiplexers, adders, flip flops, etc.
- Digital system simulating with VHDL.

Intro to Software Engineering

- A course diving into software engineering practices.
- Working as a group using the SCRUM Agile process.
- Learning the Spark framework and automated unit testing.

SKILLS

Java	●●●●●
Python	●●●●○
C++	●●●○○
C	●●●○○
HTML	●●●○○
CSS	●●○○○
Bash	●●○○○
Linux	●●●●●
Django	●●●○○
Docker	●●○○○
LDAP	●○○○○
Arduino	●●●●○

ACTIVITIES

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

RIT Residence Life
Resident Advisor | Aug 2020 - Present