

Katie Sanders

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EDUCATION

University of Illinois at Urbana-Champaign - *Computer Science + Music*

Minor: Electrical Engineering

Graduating May 2022 | GPA: 3.68

WORK EXPERIENCE

Eaton Corporation PLC - *Software Engineering Internship*

May 2021 - August 2021

- Redesigned React.js/Redux dashboard to display data and alarms for Eaton's Power Xpert devices
- Implemented user authentication for the dashboard on the frontend
- Implemented the port enable/disable and trusted host settings page for the device dashboard
- Contributed to Eaton's Software Playbook with a React.js best practices document

Sanders RF Consulting LLC - *Electrical/Software Engineering Internship*

June 2020 - August 2020

- Designed a multiplexed seven-segment heart rate monitor display for [Life Systems International](#), a medical technology corporation
- Wrote C code to program a PIC18F microcontroller to show a medical patient's heart rate, SpO2, and cardiac waveform in a wearable heart rate monitor
- Used Rhino CAD to model 3D prototypes of wearable heart rate monitor

Introduction to Computer Science, University of Illinois - *Course Assistant*

January 2020 - May 2020

- Mentored students in entry-level Android development during lab sessions and office hours

Sanders RF Consulting LLC - *Electrical Engineering Internship*

July 2019 - August 2019

- Performed and documented ESD compliance testing on incubation device for [OpenTrons](#), a biotechnology corporation specializing in hardware automation
- Field-tested [Iridium](#) GPS satellite phone handsets; generated/presented formal evaluation reports to the Iridium design team

PROJECTS

- [PanLang \(PygHack 2nd place\)](#): Developed the back end of full-stack web application to help local food banks keep track of stock and patrons in multiple languages (*Express.js, React.js, MongoDB, Node.js, GCP*)
- [Mode Master](#): Developed a Cinder/C++ application that transposes musical melodies in musicXML format
- [Plant Game](#): Created a time-based plant growing game (*Android Studio, Java, Instagram API*)

SKILLS

- **Languages:** Java, Python, C, C++