Sean Coleman

Bloomington, IN
Email: seanclmn1@gmail.com
LinkedIn: rb.gy/lhbl3p
Github: https://github.com/seanclmn

SUMMARY

I am a creative front-end web developer committed to good user experience and intuitive design.

EDUCATION

-Indiana University, Bloomington, IN (2017-Present)
-Physics B.S., Minor in Mathematics (Graduating May 2021)
-GPA: 3.795/4.000

TECHNOLOGIES

-React js, Node js, Express, Django, MongoDB, SQL

SKILLS:

- Experienced in Javascript, HTML, CSS, Python, C, Matlab, LabWindows/CVI, and Git
- Native and fluent speaker in English and Japanese, conversationally proficient in French

SOFTWARE IMMERSIVE

General Assembly – Remote
-I completed a 400+ hour software immersive program, producing several interactive full-stack (MERN) web applications.

RESEARCH EXPERIENCE

Assistant Programmer, Neutron Spin Rotation Experiment (Indiana University);
Bloomington, IN — February 2019 – August 2019, July 2020 – July 2021

Advisor: Dr. W. Michael Snow

-Using LabWindows/CVI, I built a clean and intuitive user interface capable of controlling every functionality of the LM500 cryogen level monitor.
-I helped build a magnetic field mapper that measures the magnetic field around the experiment setup. I used python serial communication to give the motors in the magnetic field mapper directions to move around the neutron beam assembly.

Numerical Simulations of White dwarfs and Neutron Stars (Indiana University):
Bloomington, IN: September 2019 – November 2020

Advisor: Dr. Charles Horowitz

-I wrote python programs to study the structure of white dwarves using numerical calculations. I calculated the Chandrasekhar mass limit, as well as mass – density relations for different chemical compositions
-I did similar calculations for the structure of neutron stars, including general relativistic effects in the equation of state.

SCIENCE OUTREACH/ SERVICE:

2018 – 2019: Physics Club
- Weekly meetings
- Involved in local science outreach

2018 and 2019: Science Olympiad
- Wrote a physics exam and judged for a state level competition