

Mukul Periwal

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EDUCATION

Drexel University, Philadelphia, PA

January 2021 – June 2025

Bachelor of Science in Physics, Pennoni Honors College

Cumulative GPA: 3.96/4.0

Relevant Coursework: Computer Programming I, II, Calculus I, II, IV, Linear Algebra, Computational Physics I, Intro Nuclear Physics, Electromagnetic Fields I, Thermodynamics, Experimental Physics, Contemporary Physics(I-III)

EXPERIENCE

Undergraduate Research Assistant

June 2021 – Present

Drexel University

Philadelphia, PA

- Working under the expertise of Dr. Russell Neilson on the project of detecting the presence of dark matter using bubble chamber.
- Running simulations on a virtually setup detector written with C++.
- Making python scripts to read the output data from simulations and present knowledgeable graphs using pandas library.

Computer Science Teaching Assistant

September 2021 – Present

Drexel University

Philadelphia, PA

- Assist the course professor with helping the students in the lab for the Computer Science Principles (CS150) class.
- Hold office hours for students to address their queries, even if they are taking a different course.
- Grade the pre-labs, labs, and homeworks and provide feedbacks while leaving a room to be questioned.

Equipment Window Assistant

June 2021 – Present

Drexel Recreation Center

Philadelphia, PA

- Check out equipments as per students and members ask for and checking them back in.
- Log inventory to help my supervisor keep track of equipments in the EQ window.
- Provide a good customer service to the customers.

PROJECTS

Blog Website | *Flask, Jinja, PostgreSQL, HTML, CSS, Bootstrap, Heroku*

- Built a fully functional personalised blog website which is editable only by the admin.
- People can register and share their views on the blog posts.

Portfolio Website | *Flask, HTML, CSS, Bootstrap, Git, Heroku*

- Developed a portfolio website containing my details and contact.
- It contains my resume as well.

IMDb API Website | *Flask, Jinja, HTML, CSS, Bootstrap, Rest API, Git, Heroku*

- Built a website which uses rest APIs from IMDb to bring the results which the user wants.
- It uses all the Search APIs and around half of the Other APIs from IMDb.

Rest API | *Flask, SQL, HTML*

- Created a Rest API for the details of cafes in a city.
- Users with valid key could search for a random cafe, all cafes, cafe by location, add a cafe to the database, update the price and delete a cafe.

TECHNICAL SKILLS

Languages: Python, SQL, HTML/CSS, VPython, L^AT_EX

Frameworks: Flask, RestAPI, Bootstrap, SQLAlchemy, Jinja2

Developer Tools: Git, PyCharm, Google Collaborate

Libraries: Pandas, NumPy, Matplotlib, Tkinter, BeautifulSoup, Selenium, Turtle, SMTPLib

Operating Systems: Windows, Linux

AWARDS AND INVOLVEMENT

Dean's Scholarship, 2020 – Present

Dean's List, 2021 – Present

Society of Physics Students, Member, 2021 – Present