

# KYLER PANG

kylerpang2028@u.northwestern.edu ◇ (518) 688 7417 ◇ <https://github.com/pangkyl28>

## EDUCATION

### Northwestern University

Applied Mathematics & Computer Science

Evanston, IL

09/2024 - Present, GPA: **3.87/4.00**

### The Seven Hills School

High School

Cincinnati, OH

09/2019 - 06/2023, SAT: **1560**, GPA (W): **4.50**

**Relevant Courses:** Engineering Analysis 1&2, CS111: Intro to CS, Design Thinking & Communication 1, CS214: Data Structures and Algorithms, Multivariable Calculus, IEMS302: Probability

**Spring 2025:** Engineering Analysis 4, CS336: Design & Analysis of Algorithms, CS211: CS Fundamentals, IEMS303: Statistics, Design Thinking & Communication 2

## EXPERIENCE

### PATH AI

Full-Stack Developer

Garage Startup @ Northwestern

01/2025 - Present

- Team Member of PATH's Full-Stack Development team, a startup company that uses AI to generate workout and diet plans to help users live healthier lives
- Loading and accessing user and static data onto MongoDB and integrating it onto the frontend webpage
- Run data analytics on user data to be presented to Investors

### QuarkNet Physics

Paid Intern

University of Cincinnati

06/2023 - 08/2023

- Supervised by Prof. Sokoloff to examine B-Meson decay characteristics from LHCb (Large Hadron Collider beauty) datasets
- Analyzed large datasets by graphing and displaying their characteristics and tendencies through a Jupyter Notebook and Python Libraries such as Numpy, Sciplot, Pandas, and Iminuit and presented findings to fellow researchers

### Syndactyly Research

Research Assistant

Ohio Northern University

05/2022 - 09/2022

- Developed a stand-alone graphical application using HTML, Javascript that stores finite element simulation results in a database and displays optimal skin plast shape given input parameters
- **Publication:** "Rectangular Dorsal Flap Size Investigation in Web Commissure Reconstruction of Syndactyly Surgery", C. E. Scheideger, G. Yang, K. Pang & Hui Shen, Proceedings of the 2023 ASEE (American Society for Engineering Education) North Central Section Conference (Session 2B, 38346).

## PROJECTS

### iLink

Project Manager & Development Team

Devices 4 the Disabled (Client)

09/2024 - 12/2024

- Designed an accessibility tool to support client in making and receiving phone calls
- Interviewed and conducted prototype testing with users to identify design constraints and requirements
- Co-authored a 35-page report. Responsible for Instruction, Design, Mockup Testing & Feedback Summary, and Instructions for Setup

### Drone Pi

Sole Developer

Personal Passion Project

04/2023 - 2/2024

- Engineered a remote-controlled Quadcopter Drone using a Raspberry Pi as the main computer
- Built Circuits, soldered parts together, connected hardware to software, and used Python to control motors connected by GPIO (General Purpose Input/Output) Pins

## TECHNICAL SKILLS

- Microsoft Office (Word, Excel & VBA, PowerPoint, Power Query)
- Programming (Python, Java, JavaScript, MATLAB, C, C++)

## AWARDS

- AIME Qualifier - AMC (91.5), AIME (5)
- USACO Silver Qualifier