KYLER PANG

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EDUCATION

Northwestern University — Evanston, IL
Applied Mathematics & Computer Science — 09/2024 - Present, GPA: **3.92/4.00**

The Seven Hills School — Cincinnati, OH
High School — 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 — Garage Startup @ Northwestern
Full-Stack Developer — 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 — University of Cincinnati
Paid Intern — 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 — Ohio Northern University
Research Assistant — 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 — Devices 4 the Disabled (Client)
Project Manager & Development Team — 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 — Personal Passion Project
Sole Developer — 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