

# Rhea Pathak

(614)-929-8629 pathak20@purdue.edu <https://www.linkedin.com/in/rhea-pathak1/>  
Seeking a challenging and enriching summer internship and/or winter co-op in the computing field.

## Education

### Purdue University, West Lafayette, IN

Aug 2022 - Present

BS in Computer Engineering

Concentrations in AI/ML and Software Engineering, Collaborative Leadership Certificate

- **Relevant coursework:** Applied Algorithms, Data structures, Advanced C Programming, Digital System Design, Signals and Systems, Probabilistic Methods, Optimization Research, Electrical Engineering Fundamentals I and II, Discrete Mathematics, Physics: Modern Mechanics, Calculus I, II, III, Linear Algebra, Differential Equations, Engineering: Transforming Ideas To Innovation
- **Activities:** Women in Electrical and Computer Engineering (WECE) director of outreach, media, and marketing, EPICS (Engineering Projects in Community Service)

### Upper Arlington High School, Upper Arlington

Aug 2018 - May 2022

High School Honors Diploma

International Baccalaureate Diploma

GPA: 4.28/4.0 (3.95 Unweighted), Summa Cum Laude

- **Activities:** Elected Class of 2022 Representative on the Upper Arlington School District Diversity, Equity, and Inclusion Board, Asian American and Pacific Islander Association Member, Computer Science Club Member

## Skills

**Software:** C++, Java, C, Python, JavaScript, Git, Altium, AWS Machine Learning, Fusion360, Arduino, Raspberry Pi  
**Languages:** English (native language), Marathi (proficient), French (fluent, received a global language scholar award in 2022)  
**Interests:** Software Engineering, AI/ML, Embedded Systems, Robotics, Microcontrollers, PCB design, Entrepreneurship

## Experience

### Flexware Innovation Indianapolis, IN

May 2025- Aug 2025

Systems Integration Intern

- Designed, developed, and implemented a time series machine PLC data pipeline in order to create a dynamic visualization utilizing the following technologies:
  - Ignition, C#, Python, Aveva Pi System, Azure SQL, Microsoft Fabric, and PowerBI
- Volunteered at Shepherd Community Center of Indianapolis and guided first graders through engineering activities

### Ohio Manufacturing Innovation Center Hilliard, OH

May 2024 - Aug 2024

- Designed PCB schematics using Altium and soldered components
- Worked with fiber-to-chip coupling using photonic inducted circuits
- Was trained on using pick & place and soldering machines
- Trained highschool students in Raspberry Pi
- Completed a consulting project on asset tracking technology
- Received training in AWS Machine Learning software

### Arlington Consulting Group Columbus, OH

May 2023 - Jan 2024

- Founded Arlington Consulting Group
- Took on projects for several different local companies
  - App Development, Marketing, Search Engine Optimization
- Hired a team of interns and lead weekly meetings

### Engineering Projects in Community Service (EPICS), Purdue University, West Lafayette, IN

Aug 2022 - May 2023

Indiana School for the Blind and Visually Impaired, Project Partner Liaison, Software Leader

- Coded a tuner that is accommodated for students who are blind or visually impaired
  - Coded a filtering algorithm
  - Utilized algorithms to perform fourier transformations

### CoolTechGirls Communications Lead, Columbus, OH

Jan 2022 - March 2022

- Took care of all matters of communication: used LinkedIn, Facebook, Instagram, Email, SignUpGenius, GroupMe, SMS, and in person forms of communication for nonprofit CoolTechGirls.

### CoolTechGirls Mentor, Columbus, OH

Feb 2022 - March 2022

- Aided middle school aged girls in techno fashion projects which involved both hardware and software. Helped them through the design process from conceptualizing an idea to developing a product to presenting the product to the rest of the group.

### Data Emerge, Columbus, OH

Jun 2018 - Aug 2018

Internship

- Organized plans for developing software
- Shadowed employees
- Assisted with communication with clients