Siddhardh Tekumalla

Bachelor of Science in Computer Science

The Pennsylvania State University, State College, PA
Expected Graduation May 2027
GPA: 4.0 / 4.0

Relevant Coursework:
Programming and Computation: Fundamentals
Programming and Computation: Data Structures
Data Management for Data Sciences
Object Oriented Programming with Web-Based Applications

Languages

Python
SQL
Java
HTML/CSS
Visual Studio Code
Tkinter
Pandas
PyCharm
Netbeans

Innovation

Provisional Patent   Liberty High School, PA

Inventor   2022-2023

- Designed a new negative stiffness honeycomb structure to absorb kinetic impacts
- Filed a Provisional Patent with team members, titled "Novel Development of Diverged Energy of Compressed Negative Stiffness Honeycomb Shells via Unique material with Added Structural Network into the Shells"

Work Experience

DeSales University   Center Valley, PA

Intern   Summer 2022

- Collaborated with professor Pranshu Gupta to develop a scheduling assistant application to be used by students and staff, using Python pandas for data manipulation
- Developed the software in Python using Spyder, a scientific IDE, to analyze large amounts of course data

LafargeHolcim   Whitehall, PA

Intern   Summer 2022

- Shadowed and learned alongside various engineers at the Lafarge cement plant
- Assisted in machine maintenance, cement testing, and chemical analysis

Bethlehem Area Public Library   Bethlehem, PA

Program Founder   Summer 2022

- Founded "Scratch4Kids", a program teaching the Scratch coding language to children ages 6-12
- Developed and implemented an original curriculum while recruiting and training assistant teachers

West Bethlehem Emergency Food Pantry   Bethlehem, PA

Developer   2021-2022

- Designed and deployed a website for the organization to increase awareness of its charity services
- Worked in partnership with senior volunteers to deliver the final product: www.westbethfoodpantry.org