

SHOUNAK MUKHERJEE

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EDUCATION:

Purdue University, West Lafayette, IN
Bachelor of Science in Computer Engineering
Honors College

May 2025

PERSONAL PROJECTS:

Text Minesweeper Game, Purdue University

May 2022 – September 2022

- Engineered and coded text minesweeper game using C
- Implemented a random level generation each time game is run but also is able to be seeded so all levels are repayable given seed number
- Generated 5 different levels of difficulty according to users' needs

IOS Tutoring App, Purdue University

January 2022 – May 2022

- Developed and outlined IOS app to help students connect to tutors for certain classes for 15 different classes
- Launched own site to support desktop mode made with HTML, CSS and JavaScript
- Updated with calendar functionality to allow students and teachers to meet up in an open time block

Speakers from Scratch, Purdue University

October 2021- January 2022

- 3D printed and machined blocks using SolidWorks. Created and compiled Arduino code used by the speakers to function
- Developed second model was 15% louder by using multi-threading with other small speakers

LEADERSHIP EXPERIENCE:

Scientific Computing Intern, Purdue Department of Health, IN, Undergraduate Intern September 2022 - Present

- Constructing website that allows user to upload biological data using Python and developing parsing method to check files using Python

Purdue Data Mine, Purdue University, IN, Undergraduate Data Science Research

August 2022- Present

- Collaborating with FFSA on analyzing and visualizing mRNA data provided by local hospitals
- Utilizing Tableau, R, C#, and ML to analyze trends between 5,000 datasets
- Training to use R, SQL, and Python in TDM 10100 to display data in the interface, allowing greater ease of use for companies to observe relationships
- Increased site activity by 35%.

Purdue Math, Purdue University, IN, Head Tutor/President

October 2021 - Present

- Teaching Calculus one and Calculus two to 5 undergrad students and 3 high school students
- Engaging teaching in group setting so learning would be more organic and grades are up at least 20% for all of the students currently

Honors College, Purdue University, IN, App Development Lead

February 2022 - May 2022

- Built an app in charge of tracking house events during Fall and Spring semesters saving 10-15 minutes each meeting taking attendance
- Allowed RAs to take attendance much more easily during floor meetings and house competitions with improved UI

Design Thinking in Technology, Purdue University, IN, Project Team Leader

August 2021 - December 2021

- Led team to construct VR haptic glove that plays VR games using advanced C# programming concepts and developed compatibility with 20 VR games
- Developed game for haptic glove called "Handy's World" which enabled user to operate all 40 different haptic sensors in glove

Metro Hacks, Boston, MA, Team Director

March 2021 – April 2021

- Leader of Metro Hacks team and won first place, created turbidity with sensor to detect if bodies of water are safe for drinking and presented findings to UN with 3 other teammates.

SKILLS:

HTML, Java, JavaScript, Python, C, C++, command line, BASH, GIT, NPM, SQL, ML

KEY COURSE CURRICULUM

Microprocessor Interfacing, Multivariate Calculus, Data Mining, Bioengineering with R