

Pushpita Rahman

prahman1@outlook.com | Philadelphia, PA | [GitHub](#) | [Portfolio](#) | [LinkedIn](#)

Skills

Programming Languages: MATLAB, Python 3 (Django), HTML5, CSS, JavaScript, Bash, SQL, C/C++
Software: EPIC, REDCap, Balsamiq Mockups 3, GanttProject, Oracle, Autodesk Fusion 360, GitHub

Experience

Research Intern

April 2017 – Present

Penn Vet Working Dog Center (University of Pennsylvania) – Philadelphia, PA

- Redesign and implement HTML forms from paper forms designed to reduce data entry by 90%
- Customize JavaScript codes to increase the efficiency of data processing and analysis by 80%
- Train new research interns into research procedures and data management

Clinical Research Assistant

April 2018 – September 2018

Thomas Jefferson University Hospital – Philadelphia, PA

- Supervised operations at the Villanova site for patient interaction and data management
 - Administered patient surveys with REDCap and managed patients using EPIC
 - Developed, processed, and tracked data, files, and reports in accordance with the IRB and sponsor
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Projects

Assistive Laboratory App for BVI Students

September 2018 – June 2019

Senior Design Project

- Designed an application for blind or visually impaired (BVI) students to substitute visual information of color change into an audio frequency of certain chemical reactions with a team of four
- Programmed with MATLAB to utilize computer learning to recognize objects
- Won two business pitch awards (ASTM International and Botstiber)

Counting Juggling Ball

April 2015 – June 2015

Freshman Design Project

- Collaborated with a team of four to design a digital object counter juggling ball to count number of catches
 - Coded an Arduino to register a vibration sensor and transfer readings onto an LCD screen
 - Updated team blog weekly, wrote an eight-page final report on the project and presented results
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Education

Bachelor of Science in Biomedical Engineering | Drexel University

June 2019

Concentration: Biomedical Informatics

Certificate in Writing and Publishing | Drexel University

June 2019

Honors and Awards

Endowed Scholarship, Drexel University, 2017 - 2019

Dean's List, Drexel University, Fall 2017 - Winter 2018

Botstiber Senior Design Entrepreneurship Award, Drexel University, 2019

ASTM Grant, ASTM International, 2018

Activities

Intern, Hahnemann University Hospital, Philadelphia, PA, January 2019 – April 2019

Volunteer, Moder Patshala, Philadelphia, PA, January 2015 to March 2015