

MERYL YE

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EDUCATION

Cornell University (2020-2023)

B.S. Computer Science
Rawlings Cornell Presidential
Research Scholar
McMullen Scholar
Dean's List
GPA: 3.8

COURSEWORK

- **Human-Computer Interaction** (Spring 2023)
- **Artificial Intelligence Practicum** (Spring 2023)
- **Computer Networks** (Fall 2022)
- **Algorithms** (Fall 2022)
- **Operating Systems** (Spring 2022)
- **Computer Vision** (Spring 2022)
- **Computer System Organization** (Fall 2021)
- **Machine Learning** (Fall 2021)
- **Functional Programming** (Spring 2021)
- **Object-Oriented Programming and Data Structures** (Fall 2020)

SKILLS

PROGRAMMING LANGUAGES

Python
Java
OCaml
JavaScript

TOOLS AND FRAMEWORKS

MATLAB
R
Arduino
CAD
Git
SQL
Tableau
HTML/CSS

WORK EXPERIENCE

Cornell University

Ithaca, NY

Robots in Groups Lab Research Assistant

June 2021 - Present

- Exploring how to incorporate ludic design into **human-robot interaction** to create more playful robots.
- Examined **user interactions** with an AI teammate using a video conferencing application.
- Wrote **Python** programs to facilitate Wizard of Oz experiment protocol.
- Utilized **CAD** software to design and build parts for mechanism **prototyping**.
- Implemented circuitry and programmed motor components using **Arduino** software.
- Constructed a vision system using **OpenCV** and **MediaPipe** to identify user movement and expression.

HCI Research Assistant

Feb. 2021 – May 2021

- Investigated **data-driven AI design** opportunities within women's health.
- Analyzed online discourses using **Python** to understand user needs and to envision potential solutions.

Verizon

Richardson, TX

Network Engineering Intern

June 2022 – Aug. 2022

- Worked on a quality assurance team **database enhancement** project.
- Implemented improved database webserver using **MySQL, PHP, CSS**, along with other web development tools.
- Business impact increased efficiency for the QA and metrics team by retiring legacy platforms and creating automation—consequently improving accuracy of data for the teams.

University of Tennessee

Knoxville, TN

Biomedical Research Intern

May 2019 – Aug. 2019

- Managed independent research project studying electroencephalography-based **brain-computer interfaces** aiming to improve student learning.
- Wrote **Python** and **MATLAB** programs to facilitate experiment protocol and for **data processing**.

LEADERSHIP & ACTIVITIES

Private Math Tutor

Aug. 2018 – Aug. 2021

- Assist students in grades 6-12 in understanding math concepts and preparing for exams.

FIRST Robotics

Jan. 2017 – May 2020

Team 1466 Captain

- Led overall robot design process, collaborated with teammates in mechanism **prototyping**, reinforced drive code, built a vision system using **OpenCV**, and assisted in electronics board arrangement.
- 2020 Smoky Mountains Regional Chairman's Award Winner

HONORS & AWARDS

NCWIT Aspirations in Computing State Middle & East TN Winner- 2020
FIRST Robotics Smoky Mountains Regionals Dean's List Semifinalist- 2019
Tennessee Governor's School for the Sciences and Engineering- 2018