

MERYL YE

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EDUCATION

Cornell University

B.S. Computer Science (2020-2023)

Rawlings Cornell Presidential

Research Scholar

McMullen Scholar

Dean's List

GPA: 3.8

COURSEWORK

Structure of Information

Networks (Spring 2023)

Human-Computer Interaction

(Spring 2023)

Computer-Mediated

Communication (Spring 2023)

Computer Networks (Fall 2022)

Algorithms (Fall 2022)

Data-Driven Web Applications

(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

SELECTED RESEARCH & WORK EXPERIENCES

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.
- Wrote **Python** programs to facilitate Wizard of Oz experiment protocol.
- Utilized **CAD** software to design and build parts for mechanism **prototyping**.
- Programmed motor components using **Arduino** software.
- Constructed a vision system using **OpenCV** and **MediaPipe** libraries to identify user movement and expression.

HCI Research Assistant

Feb. 2021 – May 2021

- Investigated **data-driven AI design** opportunities within women's health and intimate technologies.
- 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**, and various 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

- Conducted independent research project studying electroencephalography-based **brain-computer interfaces** aiming to improve student learning.

LEADERSHIP & ACTIVITIES

Math Tutor

Aug. 2018 – Aug. 2021

- Supported 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