MERYL YE

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Education

Cornell University
B.S. Computer Science (2020-2023)
Dean's List (all semesters)
GPA: 3.8

Relevant Coursework

Computer Science:

- Natural Language Processing
- Computer Networks
- Algorithms
- Operating Systems
- Computer Vision
- Computer System Organization
- Machine Learning
- Functional Programming
- Object-Oriented Programming
- Data Structures

Information Science:

- Structure of Information Networks
- Teams and Technology
- Computer-Mediated Communication
- Human-Computer Interaction
- Data-Driven Web Applications

Math:

- Discrete Math
- Multivariable Calculus
- Linear Algebra
- Differential Equations

Other:

- Probability and Statistics
- Practical Tools for Operations Research and Machine Learning

Skills

PROGRAMMING LANGUAGES:

- Python
- Java
- OCaml
- JavaScript

TOOLS AND FRAMEWORKS:

- MATLAB
- R
- Arduino
- CAD
- Git
- SQL
- Tableau
- HTML/CSS

Last Updated Fall 2023.

Research Experience

Cornell University **Ithaca, NY**
Research Assistant, Robots in Groups Lab *June 2021 – Present*

- Advised by Professor Malte Jung
- Exploring how to incorporate ludic design into human-robot interaction to create more playful robots.
- Perform literature reviews on different robot design methods in HRI research field.
- Conduct lab and field studies using mixed-methods research protocols.
- Design and build physical robots (CAD modeling, rapid prototyping).
- First author of SDC submission to HRI and full paper accepted to RO-MAN.

Research Assistant, Social Computing *Aug. 2023 – Present*

- Advised by Professor Jon Kleinberg.
- Analyzing user movement across Reddit communities.

Research Assistant, HCI *Feb. 2021 – May 2021*

- Advised by Professor Qian Yang
- 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.

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.

Work Experience

Cisco **San Jose, CA**
Technical Intern I *June 2023 – Aug. 2023*

- Re-implemented Neo4j configuration database schema generation and insertion logic to separate from application-server's startup workflow in Java.
- Used Python script to process database schema information.
- Solution improved schema inconsistency detection as well as avoidance.

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.

Honors & Awards

2020 – 2023 **Rawlings Cornell Presidential Research Scholar**
2020 – 2023 **John McMullen Dean's Scholar**

Selected Publications

M. Ye, E. Schneiders, W. Lee, M. Jung, "The Future of Home Appliances: A Study on the Robotic Toaster as a Domestic Social Robot," 2023 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Busan, Korea, 2023.

Meryl Ye, Rei (Wen-Ying) Lee, Johan Michalove, and Jessie Wong. 2023. Toaster Bot: Designing For Utility and Enjoyability in the Kitchen Space. In Companion of the 2023 ACM/IEEE International Conference on Human-Robot Interaction (HRI '23 Companion).