

Rachel L. Huang

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Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, Minor in Industrial Design
GPA 3.67, Dean's List

August 2016 – Present
Expected Graduation, May 2020

Skills

Programming: Java, Python, C, C++, MATLAB, R, Assembly Language, VHDL

Hardware: MBED, raspberry pi, DE2 board

Platforms: Linux (Ubuntu)

Relevant Courses

Mathematical Foundations of Computer Engineering

- Fundamental concepts in discrete mathematics and their efficient realizations via algorithms, data structures, and hardware.

Architecture, Concurrency, and Energy in Computation

- Introduction of major components of a processor – the core, memory hierarchy, and I/O subsystem.

Experience

National Science Foundation: Statistical Data Mining and Machine Learning

May – August 2018

Research Intern

- Used deep learning to implement a real-time object detection model based on tiny-yolov2 onto a web interface.

Center for Academic Success | Atlanta, GA

August 2017 – Present

Student Assistant

- In charge of opening and closing the center, taking calls, checking tutors and students in for appointments, signing people in and out of the center, collaborating with other student assistants.

Projects

Holojackets

Fall 2017 - Present

Team Member / Vertically Integrated Projects, Lab

Team based research group working to use 2D displays, particularly light field displays, to allow naturally perceived 3D scenes.

- Assigned to work in a subgroup to disassemble a standard flat screen display and re-assemble to enable displays that will create 3D parallax.

Hack NC: Tech Bot

Fall 2017

Team Leader

- Created a resource for Georgia Tech students to access resources including: bus transportation information, health services, tutoring needs, and psychiatric attention. Runs on a Java GUI that students can chat with.

DE2Bot Race

Spring 2018

- Programmed a DE2bot using assembly language and VHDL to compete in a race. Interfaced between the DE2 board and I/O systems on the bot.

Leadership and Activities

Women in Electrical and Computer Engineering

August 2017 – Present

Social Chair

- In charge of organizing social events for students within the club as well as collaborating with other student organizations to create a community for women in Electrical and Computer Engineering.

China Care | Georgia Institute of Technology

Fall 2016 – Spring 2018

Committee Member

- An organization focusing on fundraising for adoption programs in China as well as educate adoptees and their families around the Atlanta area about Chinese culture.
- Responsibilities include monthly playgroups and leading adoptees in various cultural activities.