Chiranshi Rachel Mittal

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EDUCATION

Georgia Institute of Technology, Atlanta, GA *August 2019 – May 2023 (expected)*
- Candidate for Bachelor of Engineering in Computer Science

Eagles Landing High School, McDonough, GA **GPA: 4.41/4.0** *August 2015- May 2019*

Programming/Software Skills: Matlab, HTML, CSS, Java, SketchUp, Tinkercad

EXPERIENCE

PsychoGenics, Tarrytown, NY *June 2017 - July 2017*
Intern
- Focused on analysis of complex behavioral data in mouse models for Amyotrophic Lateral Sclerosis (ALS) and Alzheimer's Disease (AD) using proprietary in-house technology, SmartCube and NeuroCube, that measured whole animal behavior and gait, respectively.
- For my final report, I presented my research showing phenotypic differences in mutant mouse models of ALS and AD and additionally showed a clear gender difference in how the animals behaved using PsychoGenics' systems.

PsychoGenics, Tarrytown, NY *June 2016 - July 2016*
Intern
- Conducted background research on a panel of biomarkers important in the inflammatory response that links to ALS.
- Explored methods of automated analysis of gait measures and understanding key differences in gait measures in a mouse model of ALS.

PROJECTS

Alzheimers Music Therapy: GT Grand Challenges Project
- Designed a IRB approved study and collaborated with researchers at the Cognitive Empowerment Facility to test if music therapy can be used to decrease the morning anxiety of dementia patients

GT Challenge Final Project
- Worked with a team of 5 to design an affordable endoscope pill and manufacturing plan that would increase the availability of much needed endoscopy services in underdeveloped countries

HackDuke
- Redesigned the Shodor website under 24 hours using HTML and CSS for the nonprofit track

LEADERSHIP

McDonough Youth Advisory Council, Chairperson of Family Fitness Day *August 2017 – May 2019*
- Organized and planned the 2019 McDonough Family Fitness Day
- Held the position of 2017-2018 Educational Committee Chairperson
- Organized events in the community to spread knowledge that may not be known to all the students.
- Organized events such as the Teen Movie Night for ~300 teens to bring the community closer together.

Other Clubs: Engineers Without Borders – Malawi Project, Google Developers Club at Georgia Tech, Girls Who Code, Girl Scouts (Silver Award)