Saivardhan Mada

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Education

Georgia Institute of Technology   August 2017 – May 2021
- Honors Program

Thomas Jefferson High School for Science and Technology   August 2013 – June 2017
- Governor's Regional School; Advanced Studies Diploma (2017)
- GPA: 4.23/4.0; AP Scholar with Distinction

Experience

National Institute of Mental Health (N.I.H.)   September 2016 – August 2017
Research Intern, Neuroscience Department
- Implemented Machine Learning algorithms (Random Forest) to find SNPs (Single Nucleotide Polymorphism) involved in ketamine response in OCD (Obsessive Compulsive Disorder) patients and antidepressant efficacy in Major Depressive Disorder

George Mason University – Krasnow Institute   June 2015 – August 2015
Research Intern, Neuroscience Department
- Modeled Hippocampal CA1 Neurons utilizing Python with pyMoose package

Projects

Life Alert and New Motion Sensing Technology Mobile App   February 2016
- Mobile application programmed to work with a motion sensor to automatically complete a series of tasks with simple hand gestures
- 2nd Place Award – TJ Hacks

Drunk Driving Prevention Mobile App   August 2015
- Introduces scientifically-researched "drunk tests" as a series of games on mobile phones; application automatically calls for a cab if user fails tests

Awards and Honors

Regional Winner for Extemporaneous Speaking for Forensics Debate   March 2015, February 2016
Attained Silver Status in USA Computing Olympiad   December 2015, December 2016
Qualified for American Invitational Mathematical Exam   February 2016

Activities and Membership

Emerging Leaders, Freshman Leadership Organization   August 2017-Present
Investment Committee, Georgia Tech Student Foundation   August 2017-Present
Mentorship Committee, Student Alumni Association   August 2017-Present
Captain of Speech and Forensics Team, TJHSST   September 2014 – June 2017
- Extemporaneous and Impromptu speaking

Computer Team, TJHSST   September 2013 – June 2017
- Participated in in-school coding competitions, lectured on computer science principles

Technical Skills

Computer Languages: Python (3 Years), Java (1 Year), R (1 Year), HTML5 (1 Year), CSS (1 Year)
Laboratory Skills: Gel Electrophoresis, Protein Extraction, Transformation, DNA Quantification

Publications and Licenses

Pending Publication for Computational Model of CA1 Hippocampal Neuron
GNU License for Neuron Morphology Condenser and Converter

Community Engagement

Volunteer Tutor at Prepare2Excel Center, Herndon, VA   September 2013 – August 2017
Volunteer at Mercy Hospital Cancer Center, Mason City, IA   December 2015 – January 2015
Volunteer at Insight Memory Care Center, Fairfax, VA   June 2015 – August 2015