

# Saivardhan Mada

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## Education

### **Georgia Institute of Technology**

May 2021

- Honors Program, Major: Computer Science

### **Thomas Jefferson High School for Science and Technology**

June 2017

- Governor's Regional School; Advanced Studies Diploma (2017)
- GPA: 4.23/4.0; National AP Scholar

## 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

### **WeLocate**

October 2017

- Web application built using HTML, CSS, JavaScript, Yelp API, Amazon Web Services and Python
- Calculated informational statistics for small businesses and created a heat map of successful locations using a machine learning model (<https://welocate.now.sh/>)
- Won Most Disruptive Hack (Red Venture), Best Financial Hack (Capital One) - VandyHacks

### **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
- 2<sup>nd</sup> Place Award – TJ Hacks

## 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

Captain of Speech and Forensics Team, TJHSST

September 2014 – June 2017

Computer Team, TJHSST

September 2013 – June 2017

- Participated in in-school coding competitions, lectured on computer science principles

## Technical Skills

- **Proficient:** Python, Java, & R
- **Knowledgeable:** HTML5, CSS, JavaScript

## 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

Volunteer at Mercy Hospital Cancer Center, Mason City, IA

Volunteer at Insight Memory Care Center, Fairfax, VA