

# JAYANTH (JAY) DEVANATHAN

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## EDUCATION

### Georgia Institute of Technology, Atlanta, Georgia

August 2014 - Present

- Candidate for Bachelor of Science in Computer Science
- Taken courses in Object-Oriented Programming(CS 1331), Calculus, and Linear Algebra
- Currently taking courses in Data Structures and Algorithms(CS 1332) and Multivariable Calculus
- GPA: 4.0

### Thomas Jefferson High School for Science and Technology, Alexandria, Virginia

September 2010 - June 2014

- Taken courses in AP Computer Science, Artificial Intelligence, Parallel Computing, Computer Systems Research
- Solid background in software development techniques such as implementing sorting algorithms (heap, quick, merge sort) and data structures (trees, sets, maps, recursion, arrays, linked lists, stacks, queues), Big-O analysis, Image Processing, Heuristics, Neural Networks
- National Merit Scholar Finalist
- Weighted GPA : 4.45/5.0

## TECHNICAL SKILLS

Experienced in Java and HTML  
Familiar with MATLAB and Python

## WORK EXPERIENCE

### Aspiring Scientists Summer Internship Program, Fairfax, Virginia

June 2012 - August 2014

Research Intern

- Worked in the Bioengineering Department at George Mason University under Dr. Siddhartha Sikdar
- Co-authored a paper published in IEEE Scientific Journal.
- Developed an arm prosthetic software in MATLAB that used image processing to analyze muscle ultrasound.
- Worked with a 3D Virtual Hand, coded in C, to emulate prostheses software output.
- Designed software, planned experimentation design with others in the lab for collecting ultrasound video data, collaborated with research students, and presented results.

## LEADERSHIP, HONORS, AND EXTRACURRICULAR ACTIVITIES

### Georgia Tech Model United Nations(GTMUN) Competitive Team, Member

September 2014 - Present

- Selected to represent Georgia Tech in Model UN conferences across the nation.

### GTMUN Conference, Director of Plenary General Assembly

August 2014 – October 2014

- Directed a 100-person committee at Georgia Tech's annual Model UN Conference.

### Freshman Servant Leadership Organization(FSLO), Treasurer

September 2014 - Present

- Manage a \$2,000 budget for service projects and events in the Atlanta community.

### Science Fair: *Digit Detection Using Ultrasound Imaging of Muscle Activity*

September 2012 - April 2013

- 1st Place- Fairfax Regional Science Fair(2013)
- Grand Prize Nominee - Fairfax Regional Science Fair(2013)
- 1st Place - TJHSST Science Fair(2013)

### Growth and Inspiration through Volunteering and Education(GIVE) - Tutor,

### Web Designer, Manager of Centreville Branch

September 2012 - June 2014

- Managed a tutoring center in Centreville for children in elementary and middle schools.
- Met 2 hours a week during the summer for setting up an automatic emailing system and designing the GIVE website.

### Model UN, Member(2010-2012), Webmaster(2012-2014)

September 2010 - June 2014

- Active member since middle school; managed and maintained the current club's Model UN Website.
- Chaired and ran committees for high school's annual Model UN Conference.

### Latin Honor Society, Member (2012-2013), Webmaster(2013-2014)

September 2012 - June 2014

- 2nd in Country – NJCL Website Contest
- 3rd in Country – NCJL Dramatic Interpretation Advanced Prose