J A Y A N T H (J A Y)   D E V A N A T H A N

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia   **August 2014 – May 2018**
Candidate for Bachelor of Science in Computer Science, GPA: 4.0
- 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

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 C, Python, MATLAB, and Android Studio

WORK EXPERIENCE

FPGA Security Research   **January 2014 - Present**
Research Intern
- Working under the mentorship of Dr. William Harris to designing information-secure consumer programmable devices, specifically field programmable gate arrays(FPGAs)

Aspiring Scientists Summer Internship Program, Fairfax, Virginia   **June 2012 - August 2014**
Research Intern
- Co-authored a paper published in IEEE Scientific Journal with Dr. Siddhartha Sikdar
- Developed an arm prosthetic software in MATLAB that used image processing to analyze muscle ultrasound movement with a 90% accuracy
- Coded a virtual hand in C to emulate prostheses software output
- Designed and submitted ultrasound data collection methods for IRB approval on 20 subjects

LEADERSHIP, HONORS, AND EXTRACURRICULAR ACTIVITIES

Freshman Servant Leadership Organization(FSLO), Treasurer   **September 2014 - Present**
- Manage a $2,000 budget for service projects and events in the Atlanta community.

GTMUN Conference, Director of Plenary General Assembly   **August 2014 – October 2014**
- Directed a 100-person committee at Georgia Tech's annual Model UN Conference.

Georgia Tech Model United Nations(GTMUN) Competitive Team, Member   **September 2014 - Present**
- Selected to represent Georgia Tech in Model UN conferences across the nation.

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.

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