JAYANTH(JAY) DEVANATHAN

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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, C++, Python, MATLAB, Verilog, Android Studio, and Xcode

RESEARCH EXPERIENCE

FPGA Security Research
January 2015 – May 2015
Research Intern
    Designed and implemented information control flow policies on field gate programmable arrays.
    Implemented policies in Verilog for hardware – oriented information secure solutions.

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)
September 2014 - Present
Treasurer (2014 – 2015), Financial Director (2015)
    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