

Tyler Chang
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Education:

Current Undergraduate Virginia Wesleyan College, Computer Science &
Mathematics Major, Expected Date of Graduation: May, 2016
Current GPA: 3.935 (Unweighted)

Qualifications:

Programming Skills: Java, C, C++, C#, x86 Assembly, MIPS Assembly, VHDL, HTML, PHP, MySQL, MATLAB, Python, Dr. Racket, Wolfram Mathematica, R

Operating Systems: Windows, Linux

Math Skills: Calculus (I, II, Multivariable), Ordinary Differential Equations, Linear Algebra, Combinatorics, Statistics, Probability, Numerical Methods, Modeling, Real Analysis

Other Tech Skills: CMOS logic and wiring, LaTeX, Excel, Adobe Photoshop & Illustrator, SPSS

Employment History:

2013 – Present

Math/CS Tutor for Virginia Wesleyan College (Norfolk, VA): Assisting in student comprehension of mathematics and computer science.

Summer, 2015

Intern for US Army Research Labs (Aberdeen, MD): Worked for Computational Sciences Division (CSD) in the Computational & Information Sciences Directorate (CISD). Main project was the optimization of an optimal control problem solving algorithm. Worked in Matlab and C.

2014 – 2015

Intern for US Army Research Labs (Aberdeen, MD): Worked for Guidance Technology Branch (GTB) in the Weapons & Material Research Directorate (WMRD). Projects included a canard actuator calibration GUI, computer vision based target detection and tracking algorithm, and various embedded system optimization projects. Worked in C, C++, and Matlab.

Awards and Accomplishments:

Fall, 2014 & 2015

ACM International Collegiate Programming Contest: Competed on team for Virginia Wesleyan College. Team placed 1st in site and top 30 in the Mid-Atlantic Region in both 2014 and 2015 events.

Summer, 2013-2014

MasterMind Research Project: Expanded on Donald Knuth's research for the board game MasterMind through Virginia Wesleyan College's math department. Found optimum strategies for winning MasterMind games with varying rule sets. Project took 2nd place at Virginia Wesleyan College's Spring 2014 Research Symposium. Findings also presented at American Mathematical Society/Mathematical Association of America joint conference in Baltimore, Maryland, January 2014.

2012-Present

Virginia Wesleyan Tennis Team: Starter for Virginia Wesleyan College's varsity men's tennis team. 2-time All-Conference honoree, Chi Alpha Sigma athletic honors society.