

Akilesh Tangella

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Education

- 2014-Present **University of Pennsylvania, Philadelphia, PA,**
Jerome Fisher Program in Management and Technology
Candidate for Bachelor of Applied Science (Computer Science), Bachelor of Science in Economics (Wharton).
Relevant Coursework: Programming Languages and Techniques I and II (Data Structures and Algorithms), Introduction to Algorithms, Corporate Finance, Managerial Economics, Statistical Interference, Real Estate Finance and Investment, Management of Technology, Monetary Economics and the Global Economy
- 2011-2014 **Ward Melville High School, East Setauket, NY**
Graduated with Honors.

Research Experience

- October 2015 **RA @ Penn, Department of Finance, The Wharton School, University of Pennsylvania,** Mentor:
- Present Deputy Dean Michael Gibbons.
◦ Study financial derivatives and data processing using MATLAB
- Summer 2013 **High School Research, Department of Applied Mathematics and Statistics, Stony Brook University,**
Mentor: Dr. Yuefan Deng.
◦ Mathematically modeled platelet geometry for potential applications in Computational Flow Dynamic (CFD) simulations of platelet activation and aggregation.
- Summer 2012 **High School Research, Department of Physics, Stony Brook University,** Mentor: Dr. Ismail Zahed.
◦ Theoretically studied cold atoms and superfluids.

Teaching Experience

- August 2015 **STAT430: Probability, The Wharton School,** Teaching Assistant.
- May 2016

Summer Internship Experience

- Summer 2016 **Wall Street Investment Management LLC, (wallstim.com).**
◦ Collect and update market data for visualizations in client presentations.
◦ Learn about various investing strategies, including monthly re-balancing, using put indexes, and currency arbitrage.
- Summer 2016 **Sri Sathya Sai Institute of Higher Medical Sciences, Prashantigram (Puttaparthi, India).**
◦ Gave ideas for potential operational improvements to doctors
◦ Interacted with patients in Telugu and assisted doctors in free hospital in rural India.
◦ Delivered a presentation on stroke to nurses.
- Summer 2015 **Heritage Academy (Essiam, Ghana), Global Ed Intern.**
◦ Awarded 4000 dollars from Penn's International Internship Program (IIP).
◦ Taught math to 10th, 11th, and 12th graders, and computer technologies to 10th and 11th graders.
◦ Helped to digitize the school's academic and business records.

- Summer **School Yourself**, *Educational Technology*, Summer Intern.
2014
- o Used YAML and Python to make review problems for topics including: congruence, similarity, polynomials, pythagorean theorem, etc.
 - o Improved lesson curricula for courses in algebra and geometry that will be subsidized and featured on edX.
 - o Discussed ideas for calculating student mastery of a subject.

Selected Awards

- 2014-2015, University of Pennsylvania Dean's List
2015-2016
- 2014 New York/New Jersey Regional Botball Robotics Competition
1st Place (Overall, Seeding Round), 2nd Place (Double Elimination Round), Best Documentation Award
- 2011-2014 4x Qualifier for the American Invitational Mathematics Examination (AIME)
- 2013 National Advanced Placement (AP) Scholar

Programming/Software Experience

Java (advanced), OCaml (basic), KISS-C (Robot Programming) (basic), \LaTeX (medium), Mathematica (basic), Python (basic), R (basic)

Interests

Singing, Basketball, Teaching, Sports History