Akilesh Tangella

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) (Concentration in Finance), Minor in Mathematics.

Relevant Coursework: Programming Languages and Techniques I and II, Mathematical Foundations of Computer Science, Introduction to Algorithms, Statistical Interference, Randomized Algorithms, Real Analysis, Abstract Algebra, Computational Learning Theory (current), Database and Information Systems (current), Algorithmic Game Theory (current)

2011-2014

Ward Melville High School, East Setauket, NY,

Graduated With Honors.

2012-2013

Stony Brook University, Stony Brook, NY,

Young Scholars Program (Took classes while in high school) .

Relevant Coursework: Multivariable Calculus with Linear Algebra, Differential Equations with Linear Algebra, Analysis of Algorithms

Research Experience

Starting February

Research at Penn, Department of Computer Science, University of Pennsylvania, Mentor: Dr.

ary Sanjeev Khanna.

2017

Project in theoretical computer science.

Summer 2013

High School Research, Department of Applied Mathematics and Statistics, Stony Brook University, Mentor: Dr. Yuefan Deng.

o 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

January 2017 - Present

CIS320: Introduction to Algorithms, University of Pennsylvania, Teaching Assistant.

August 2015 - December

2016

STAT430: Probability, *The Wharton School*, Teaching Assistant.

Summer Internship Experience

August 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 properties of exchange rates.

Sri Sathya Sai Institute of Higher Medical Sciences, Prashantigram (Puttaparthi, India). June-July 2016 • Gave ideas for potential operational improvements to doctors o Interacted with patients in Telugu and assisted doctors in free hospital in rural India. • Delivered a presentation on stroke to nurses. Summer Heritage Academy (Essiam, Ghana), Global Ed Intern. 2015 o Awarded 4000 dollars from Penn's International Internship Program (IIP). o 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. **School Yourself**, *Educational Technology*, Summer Intern. Summer 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. Honors and Awards 2017 Eta Kappa Nu, Lambda Chapter (to be inducted) 2014-2015. University of Pennsylvania Dean's List 2015-2016 New York/New Jersey Regional Botball Robotics Competition 2014 1st Place (Overall, Seeding Round), 2nd Place (Double Elimination Round), Best Documentation Award 4x Qualifier for the American Invitational Mathematics Examination (AIME) 2011-2014 2014 Science Bowl 1st Place at Long Island High School Regional Science Bowl Competition, Competed in National Science Bowl Competition in Washington D.C. Columbia University Science Honors Program 2011-2014 Courses: Organic Chemistry, Experiments in Modern Physics, Nanotechnology, Quantum Mechanics and Relativity, Java Programming, Astronomy and Astrophysics 2011-2014 Suffolk County High School Math Tournament 4th Place (2013), 2nd Place (2012), 5th Place (2011) Individually, 1st Place Team (2011-2014) 2013 National Advanced Placement (AP) Scholar Suffolk County High School Math League Competition 2012-2013 1st Place (2013), 2nd Place (2012) 2011-2013 Three-time Gold Medalist at Long Island Math Fair Studied Markov Chains, Catalan Numbers, and Fourier Series 2011-2012 Math Kangaroo Competition National Award Winner 2011 United States of America Mathematical Talent Search (USAMTS)

Bronze Medalist

Programming/Software Experience

Java (intermediate-to-advanced), OCaml (basic), KISS-C (Robot Programming) (basic), LATEX(medium), Mathematica (basic), Python (basic), R (basic), Excel (medium), Matlab (very basic), C (very basic)

Interests

Singing, Basketball, Teaching, Sports History