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: Mathematical Foundations of Computer Science, Introduction to Algorithms, Automata, Computability, and Complexity, Probability, Statistical Inference, Real Analysis, Randomized Algorithms, Computational Learning Theory, Algorithmic Game Theory, Adaptive Data Analysis
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

Fall 2017 - Present	**University of Pennsylvania (Senior Thesis Research)**, Mentor: Aaron Roth.
	○ Studying differential privacy for tensor decomposition algorithms (especially those that use sum-of-squares optimization).
Summer 2017	**DIMACS REU at Rutgers University**, Mentor: S. Muthukrishnan, Rebecca Wright.
	○ Studied differential privacy for various recommendation algorithms.
Spring 2017	**University of Pennsylvania**, Mentor: Sanjeev Khanna.
	○ Studied streaming algorithms for counting triangles in graphs.

▬▬▬▬ Teaching Experience

Spring 2018	**NETS412: Algorithmic Game Theory**, *University of Pennsylvania*, Teaching Assistant.
Spring 2017	**CIS320: Introduction to Algorithms**, *University of Pennsylvania*, Teaching Assistant.
Fall 2015, Spring 2016, Fall 2016, Fall 2017	**STAT430: Probability**, *The Wharton School*, Teaching Assistant.

▬▬▬▬ Other Work/Volunteer Experience

Summer 2016	**Sri Sathya Sai Institute of Higher Medical Sciences, Prashantigram (Puttaparthi, India)**.
	○ Interacted with patients in Telugu and assisted doctors at free hospital in rural India.
Summer 2015	**Heritage Academy (Essiam, Ghana)**, Global Ed Intern.
	○ Awarded 4000 dollars from Penn's International Internship Program (IIP) to teach math to high school students.
Summer 2014	**School Yourself**, *Educational Technology*, Summer Intern.
	○ Used Python to create review questions for a startup making interactive tools for learning math.

Honors and Awards

Inducted Spring 2017   Tau Beta Pi Engineering Honor Society, Pennsylvania Delta Chapter

Inducted Spring 2017   Eta Kappa Nu Honor Society, Lambda Chapter

2014-2015, 2015-2016, 2016-2017   University of Pennsylvania Dean's List

Programming/Software Experience

Java (intermediate), OCaml (basic), KISS-C (Robot Programming) (basic), LaTeX (intermediate), Mathematica (basic), Python (basic), R (basic), Excel (intermediate), Matlab (basic), C (basic)

Hobbies

Singing, Basketball, Teaching Math to Kids