

Shyamal Patel

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Education

Georgia Institute of Technology, Atlanta, Georgia Expected Graduation: May 2020
Candidate for Bachelor of Science in computer science
Notable coursework: Machine Learning (Spring 2017)
GPA: 4.0/4.0

Devon Preparatory High School, Devon, Pennsylvania September 2012 – June 2016
GPA 4.52/4.52

Awesome Math Summer Program, Dallas, Texas June 2013, June 2014
Took classes in Number Theory, Combinatorics, Algebra (roots of unity and multivariate polynomials), and Geometry (Homothety, Barycentric Coordinates)

Awesome Math Summer Program, Ithaca, New York July 2013
Took classes in Algebra (Symmetric Polynomials, Rings, Cauchy Schwartz) and Geometry (Radical Axis, Mass Points, Menelaus, Ceva Theorem)

Awards and Distinctions

Devon Prep Valedictorian 2016

American Invitational Mathematics Exam Qualifier 2015
An exam given to scorers in the 95th percentile and above in the American Mathematics Competition

National AP Scholar
Received a score of 5 on 12 AP exams

National Merit Finalist 2016

Quill and Scroll International Honor Society for High School Journalists 2013-2016
Recognition of individual student achievement in journalism and scholastic publication

Leadership and Activities

Artificial Intelligence Club Member Present

Programming Team Club Member Present
One of 18 students representing Georgia Tech at the ACM South East Regional Competition

Big O Computer Science Theory Club Member

William Lowell Putnam Competition Team Member Present
One of three students representing Georgia Tech in the William Lowell Putnam Math Competition

Georgia Tech Fencing Club Member Present

Captain of Devon Prep Mathletes Team August 2015 - June 2016
Competed in monthly Mathletes Competitions between students in the Philadelphia Archdiocese
Taught younger students trigonometry and other subjects they hadn't yet encountered in class

Captain of Devon Prep Science Olympiad Team August 2015 – June 2016
Competed in the Science Olympiad Competition in events ranging from Hydrogeology to Circuits
Aided younger students in building their projects

Devon Dialogue Associate Editor of News August 2015 – June 2016
Helped run and organize Devon Prep's newspaper club
Wrote and edited articles for the newspaper

Skills

Proficient Programming Languages: Python, Java

Working knowledge of: HTML, CSS, Latex

Fluent in Spanish

1st Degree Black Belt in Taekwondo

Instruments: Piano

Projects

Ultimate Tic Tac Toe (Java) November 2016
Built an AI based on the Monte Carlo Tree Search Algorithm
Experimented with numerical methods to quickly sample Beta Distribution
Newton-Cotes Quadrature and Householder Methods
Implemented basic UI in JavaFX