

# Neerja B. Thakkar

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## Education

June 2019	<b>Dartmouth College</b> <i>Bachelor of Arts: Computer Science, Mathematics</i> , GPA: 3.90 Honors: Citation for Academic Excellence in Writing Seminar, Citation for Academic Excellence in CS50: Software Design and Implementation, Sophomore Science Research Scholarship Relevant coursework: Computer Science 1 and 10, Software Design and Implementation, Discrete Mathematics for CS, Algorithms, Multivariable Calculus, Linear Algebra, Graph Theory, Probability, Topics in Abstract Algebra, Economics 1
Fall 2017	<b>Aquincum Institute of Technology - Budapest</b> , Semester Study Abroad Mobile Software Development, Applied Cryptography, Combinatorial Optimization, Complex Networks
June 2015	<b>St. Paul Academy and Summit School</b> , GPA: 3.96, SAT: 2400 Honors: Cum Laude Society, Mathematical Association of America Award, AIME qualification, National Merit Scholarship Winner, National AP Scholar, National Spanish Exam Medal

## Skills and Projects

Technical Skills	<ul style="list-style-type: none"><li>▪ Proficient: Python, Java, C</li><li>▪ Experience with: HTML/CSS, XML, Apache Spark, L<sup>A</sup>T<sub>E</sub>X, Bash</li></ul>
Selected Programming Projects	<ul style="list-style-type: none"><li>▪ Software to parse and create data frames from a new data format (XML, Java, Apache Spark, SQL)</li><li>▪ Implementation of clustering algorithms for analysis of T-cell receptor sequences (Python)</li><li>▪ Tiny Search Engine - Crawler, Indexer, Querier (C)</li></ul>

## Experience

June - Aug 2016	<b>3M Health Information Systems</b> , Software Engineering Intern <ul style="list-style-type: none"><li>▪ Improved and updated a fundamental Java-based XML data parser, deployed using Spark and SQL</li><li>▪ Enabled analysis of millions of documents for data scientists and engineers throughout HIS</li><li>▪ Modified the parser to allow for anticipated future expansion, developed JUnit unit tests</li><li>▪ Prototyped cloud-based parser deployment using AWS</li></ul>
Jan 2017 - present	<b>Bailey-Kellogg Group</b> of Dartmouth CS Department, Research Assistant <ul style="list-style-type: none"><li>▪ Implementing clustering algorithms on complimentary determining regions of T-cell receptor DNA sequences using Python to learn about and compare TCR repertoires of different patient populations</li></ul>
March 2016 - present	<b>Dartmouth CS Department</b> , CS1 and CS30 Teaching Assistant <ul style="list-style-type: none"><li>▪ CS1 (Spring 2016): Taught weekly sections to 10 students on basic programming skills in Python, graded students' coursework. Helped students understand concepts and write and debug code</li><li>▪ CS30 (Summer 2017): Teaching assistant for Discrete Mathematics in Computer Science - teach students key concepts in discrete math during office hours, grade coursework</li></ul>
Feb 2016 - present	<b>Dartmouth Symphony Orchestra</b> , Co-Manager <ul style="list-style-type: none"><li>▪ Coordinate general operations of the DSO, execute hiring of professional musicians</li><li>▪ Resolve personnel conflicts and concerns within DSO, act as liaison between students, conductor and Hopkins Center, and foster community building by facilitating social events and other initiatives</li></ul>

## Additional Involvements

Dartmouth	Dartmouth Machine Learning Club (treasurer), DSO (violinist), Divest Dartmouth, Women in Computer Science, Student and Presidential Committee on Sexual Assault
Violin	Have studied solo classical violin for 14+ years, played in numerous chamber groups, violinist in MN Youth Symphonies for 8 years, participated in music festivals, taught violin lessons
Dance	Learned Bharatanatyam, a classical Indian dance, for 12 years - my studies culminated with a 2-hour solo debut performance