Neerja B. Thakkar

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Education

June 2019	**Dartmouth College** *Bachelor of Arts: Computer Science, Applied Math Minor* GPA: 3.89 Honors: Citation for Academic Excellence in Writing Seminar, Sophomore Science Research Scholarship Relevant coursework: Computer Science 1 and 10, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Chemistry 5, Biology 11, Economics 1
June 2015	**St. Paul Academy and Summit School** 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	▪ Proficient: Python, Java ▪ Experience with: HTML/CSS, XML, Swift, Apache Spark, LaTeX
Selected Programming Projects	▪ Software to parse and create data frames from a new data format (XML, Java, Apache Spark, SQL) ▪ Connect Four game with Alpha-Beta pruning AI (Java) ▪ Implementation of clustering algorithms for analysis of T-cell receptor sequences (Python)

Experience

June - Aug 2016	**3M Health Information Systems**, Software Engineering Intern ▪ Improved and updated a fundamental Java-based XML data parser, deployed using Spark and SQL ▪ Enabled analysis of millions of documents for data scientists and engineers throughout HIS ▪ Modified the parser to allow for anticipated future expansion, developed JUnit unit tests ▪ Prototyped cloud-based parser deployment using AWS
Sept 2016	**Bailey-Kellogg Group** of Dartmouth CS Department, Research Assistant ▪ Recruited to implement clustering algorithms on T-cell receptor DNA sequences with Python ▪ Will learn about about similarities and differences in TCR repertoires in different patient populations
March 2016 - present	**Dartmouth CS Department**, CS1 Teaching Assistant ▪ Teach weekly sections on basic programming skills in Python, grade students' exams and coursework ▪ Mentor students through understanding concepts and writing and debugging code
Feb 2016 - present	**Dartmouth Symphony Orchestra**, Co-Manager ▪ Coordinate general operations of orchestra, execute hiring of professional musicians ▪ Resolve personnel conflicts and concerns within orchestra, act as liaison between students, conductor and Hopkins Center, and foster community building by facilitating social events and other initiatives
May - Dec 2014	**Hogquist Group** of University of Minnesota, Research Assistant ▪ Assisted a 6th year PhD candidate, then researched full time, investigating a correlation between NKG2A+ natural killer cell numbers and Epstein-Barr virus severity using flow cytometry

Additional Involvements

At Dartmouth	Violinist in the Dartmouth Symphony Orchestra, First Year Peer Mentor, Divest Dartmouth, Women in Computer Science, South Asian Student Association
Violin	Have studied solo classical violin for 13+ 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