Neerja B. Thakkar

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Education

June 2019 | **Dartmouth College**
Bachelor of Arts: Computer Science, Applied Mathematics
GPA: 3.90
Honors: Citation for Academic Excellence in Writing Seminar, Sophomore Science Research Scholarship
Relevant coursework: Computer Science 1 and 10, Discrete Mathematics for Computer Science, Algorithms, 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, 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

Jan 2017 - present | **Bailey-Kellogg Group** of Dartmouth CS Department, Research Assistant
- Implementing clustering algorithms on complimentary determining regions of T-cell receptor DNA sequences using Python in order to learn about similarities and differences in TCR repertoires in different patient populations

March - June 2016 | **Dartmouth CS Department**, CS1 Teaching Assistant
- Teach weekly sections to 10 students 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
- Investigated a correlation between NKG2A+ natural killer cell numbers and Epstein-Barr virus severity using flow cytometry

Additional Involvements

Dartmouth | Violinist in the Dartmouth Symphony Orchestra, Dartmouth Entrepreneurial Network, 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