

Neerja B. Thakkar

Hinman Box 4264
Hanover, NH 03755
neerja.me

(651) 442-5695
neerja.19@dartmouth.edu
linkedin.com/in/neerja-thakkar

Education

June 2019	Dartmouth College <i>Bachelor of Arts: Computer Science, Applied Mathematics</i> , GPA: 3.90 Honors: Citation for Academic Excellence in Writing Seminar, 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, Discrete Probability, Topics in Abstract Algebra, Economics 1
Fall 2017	Aquincum Institute of Technology - Budapest , Semester Study Abroad Theory of Computation, Applied Cryptography, Combinatorial Optimization, Computer Graphics
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	<ul style="list-style-type: none">▪ Proficient: Python, Java, C▪ Experience with: HTML/CSS, XML, Apache Spark, L^AT_EX, Bash
Selected Programming Projects	<ul style="list-style-type: none">▪ Software to parse and create data frames from a new data format (XML, Java, Apache Spark, SQL)▪ Implementation of clustering algorithms for analysis of T-cell receptor sequences (Python)▪ Tiny Search Engine - Crawler, Indexer, Querier (C)

Experience

June - Aug 2016	3M Health Information Systems , Software Engineering Intern <ul style="list-style-type: none">▪ 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 <ul style="list-style-type: none">▪ Implement 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
March 2016 - present	Dartmouth CS Department , CS1 and CS30 Teaching Assistant <ul style="list-style-type: none">▪ CS1 (Spring 2016): Teach weekly sections to 10 students on basic programming skills in Python, grade students' coursework. Help students understand concepts and write and debug code▪ CS30 (Summer 2017): Will be a teaching assistant for Discrete Mathematics in Computer Science - this will entail assisting in teaching students key concepts in discrete math and grading coursework
Feb 2016 - present	Dartmouth Symphony Orchestra , Co-Manager <ul style="list-style-type: none">▪ 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

Additional Involvements

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