

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, 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: CS 1 and 10, Software Design and Implementation, Discrete Math, Algorithms, Multivariable Calculus, Linear Algebra, Graph Theory, Probability, Abstract Algebra, Economics 1
Fall 2017	Aquincum Institute of Technology - Budapest , Semester Study Abroad Mobile Software Development, Applied Cryptography, Combinatorial Optimization, Complex Networks
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, CExperience with: HTML/CSS, XML, Apache Spark, \LaTeX, Bash, R
Selected Programming Projects	<ul style="list-style-type: none">Cryptographically secure chat room (Python)Software to parse and create data frames from a new data format (XML, Java, Apache Spark, SQL)Tiny Search Engine - Crawler, Indexer, Querier (C)

Experience

June 2018	Facebook , Incoming Software Engineering Intern
Jan 2017 - present	Bailey-Kellogg Group of Dartmouth CS Department, Research Assistant <ul style="list-style-type: none">Developing and improving method in Python to analyze complementarity determining regions (CDRs) of T-cell receptors to find patterns of specificity and “hotspots” of CDRs critical for bindingTake unstructured repertoire sequence data, cluster it, extract motifs, and compare distributionsAnalysis has power to reveal information about genetic diversity from newly available data
Spring 2016, Summer 2017	Dartmouth CS Department , CS1 and CS30 Teaching Assistant <ul style="list-style-type: none">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 codeCS30 Discrete Mathematics for CS (Summer 2017): Graded coursework, taught students key discrete math concepts such as proofs methods, combinatorics, probability, and graph theory during office hours
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 SQLEnabled analysis of millions of documents for data scientists and engineers throughout HISDeveloped JUnit unit tests, prototyped cloud-based parser deployment using AWS
Feb 2016 - present	Dartmouth Symphony Orchestra , Co-Manager <ul style="list-style-type: none">Coordinate general operations of the DSO, execute hiring of professional musiciansResolve 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

Additional Involvements

Dartmouth	Dartmouth Machine Learning Club (co-President), DSO (violinist), Women in CS, Women in Science Program mentor, Student and Presidential Committee on Sexual Assault
Violin	Have studied solo classical violin for over 14 years: played in numerous chamber groups, violinist in MN Youth Symphonies for 8 years, participated in music festivals, taught violin lessons
Dance	12 years of Bharatanatyam (classical Indian dance), culminated studies with 2-hour solo debut