

# ALOK R. PURANIK

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## EDUCATION

**Massachusetts Institute of Technology (MIT)** – GPA: 5.0

**Cambridge MA**

Candidate for B.S. in Math and Computer Science

June 2020

Relevant coursework: Multivariable Calculus, Statistical Inference

**Westford Academy** – Salutatorian

June 2016

## WORK AND RESEARCH EXPERIENCE

**Sentropy Technologies**

**Palo Alto CA**

*Machine Learning Researcher*

January 2019–present

- Developing statistical tools for automated harassment detection

**MIT Clinical ML Group**

**Cambridge MA**

*Undergraduate Researcher*

September–December 2018

- Researched techniques for modeling missing data as latent variables in clinical time-series

**Jane Street**

**New York NY**

*Quantitative Research Intern*

May–August 2018

- Identified anomalies in options prices using tools based on the study of stochastic processes
- Developed a deep sequence model for predicting market events

**Apple**

**Cupertino CA**

*Software Engineering Consultant*

August 2017–May 2018

- Researched NLP with deep neural networks for answering general knowledge queries

**Bloomberg L.P.**

**New York NY**

*Engineering Intern*

June–August 2017

- Designed and developed new features for pricing derivatives with the Bloomberg Language

**Lattice Data**

**Menlo Park CA**

*Engineering Intern/Software Contractor*

January–April 2017

- Improved scalability and performance of optimizer for machine learning
- Developed NLP-based knowledge base creation tool

## AWARDS, VOLUNTEER AND LEADERSHIP EXPERIENCE

**Westford Academy Math Team, Captain**

2012 – 2016

- Winner of 2016 Massachusetts Association of Math Leagues, 1 of 250 competitors in USAMO
- Taught material not covered in school to team members
- Tutored students individually

**Lowell Humane Society**

2014 – 2016

- Took care of cats, walked dogs, mentored new volunteers, did various janitorial tasks

## SKILLS AND STANDARDIZED TESTS

**Programming Languages:** Python, Java, C++, Javascript, C, SQL

**Math:** Number Theory, Linear Algebra, Combinatorics, Statistics, Calculus

**AP Exams:** Statistics, AP CS, US History, Calculus BC, Chemistry, Physics C (Mechanics and E&M), English Literature, European History, Music Theory, Spanish — 5 on all

**SAT:** 2400