Sanjit Bhat | Résumé

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Education

Acton-Boxborough Regional High School — **Acton, MA**
Weighted GPA: 4.4/5.0, Unweighted GPA: 3.9/4.0 — *Fall 2015–Present*

- 2018–19 Courses: AP Statistics, Chemistry, English Literature, Spanish Language, Psychology
- ACT Composite (34/36); SAT Subject Tests: Math II (800/800), Biology E (790/800)
- Completed APs: BC Calculus (5/5), Computer Science A (5/5), Physics C: Mechanics (5/5), U.S. History (5/5)

Harvard University Extension School — **Cambridge, MA**
Multivariable Calculus (In Progress) — *Fall 2018*

AlphaStar Academy — **Santa Clara, CA**
USA Computing Olympiad (USACO) Silver, Gold, and Platinum courses — *Summer 2016–Summer 2017*

Learned computational geometry, data structures, search techniques, graph algorithms, and dynamic programming

Extra-Curricular Activities

MIT Program for Research in Math, Engineering, and Science (PRIMES) — **Cambridge, MA**
Highly-selective year-long high school research program — *Jan 2017–Present*

- Project 1: Attacking and defending users' anonymity on Tor Network (Jan 2017–Aug 2018)
  - Independently learned best practices and techniques for applied deep learning via Fast.ai
  - Semifinalist in prestigious 2017 Siemens Competition for high school research
  - Presented at MAA Undergraduate Student Poster Session of 2018 Joint Mathematics Meeting, San Diego
  - First-author of paper under review at 2019 Privacy Enhancing Technologies Symposium conference
  - Second-author of paper accepted into 2018 ACM Workshop on Privacy in the Electronic Society
- Project 2: Adversarial machine learning (Jan 2018–Present)
  - Working in Mądry Lab at MIT on developing efficient methods to train robust deep neural networks
  - Research includes techniques from linear algebra (self-studied via MIT OpenCourseWare), asynchronous parallelization, and convex optimization

AB IdeaLab (AB's Computer Science Club)
Co-Captain (Fall 2017–Present) — *Fall 2015–Present*

- Plan team meetings, write teaching material, and assist members with creating and executing original projects
- Train competitive programming team, which competes in American Computer Science League (ACSL) contest
- Planned and executed Major League Hacking local hack day (AB's Hackathon) in Dec 2017

ABRHS Marching, Concert, and Jazz Bands
Principal Tuba (Fall 2017–Present), Trumpet (Fall 2015–Spring 2017) — *Fall 2015–Present*

- 3rd chair concert band tuba player at 2018 MMEA Eastern District Senior Festival
- AB marching band received gold medal at 2017 and 2018 state-level MICCA competition

Boy Scouts of America, Troop 284 — **Acton, MA**
Eagle Scout (Earned Sep 2016) — *April 2012–Present*

- Achieved highest rank in Boy Scouts. Led project to paint local TV studio sets and enhance production value
- As Senior Patrol Leader, planned troop meetings and events and was primary interface between scouts and adults

- **AB Science Olympiad Team**
  Member of 15-student team that won 1st place at Yale Invitational Tournament *Fall 2015–Spring 2017*

Honors and Awards

- **USA Computing Olympiad - Gold Level**
  Penultimate level in highly-competitive high school CS Olympiad *Dec 2016*
- **MIT Blueprint Hackathon - 1st place in Rookie Division**
  Created a game that integrated visual perception, auditory cues, and motor functions *Feb 2016*
- **President's Volunteer Service Award**
  Received Gold-level in 2015 and 2016 and AB community service award in 2017 *2015–17*
- **National Honor Society**
  Member of Raymond J. Grey chapter *Fall 2018–Present*

Work Experience

- **KTByte Computer Science Academy - Teaching Assistant** **Lexington, MA**
  Assisted students with introductory–mid level CS using Java and Processing *July 2015–Jan 2017*

Community Service

- **Peer Tutor** **Acton, MA**
  Help high school students develop strong understanding across several subject areas *Fall 2017–Present*
- **Central MA Regional Student Advisory Council - Regional Delegate** **Hudson, MA**
  Elected into committee that discussed solutions to pertinent educational issues *Fall 2016–Spring 2018*
- **Science Discovery Museum - Volunteer** **Acton, MA**
  Helped young children explore science through hands-on exhibits *July 2015–May 2017*

Technical Skills

- **Languages:** Python, Java, LaTeX
- **Libraries:** TensorFlow, NumPy, Keras
- **OS:** Windows, Unix/Linux