

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 **2015–Present**
2017-18: Honors/AP BC Calculus, Physics, U.S. History II, Spanish IV, English III
ACT Composite: 34; SAT Subject Test Math II: 800, Biology E: 790
AP Courses: Computer Science A (5/5), BC Calculus (5/5), Physics C: Mechanics (5/5), U.S. History (5/5)
- **AlphaStar Academy** **Santa Clara, CA**
USA Computing Olympiad (USACO) Silver, Gold, and Platinum courses **2016–17**
Computational geometry, data structures, search techniques, graph algorithms, and dynamic programming.
- **KTByte Computer Science Academy** **Lexington, MA**
CS01 (Intro to CS), CS02 (AP CS), and CS91 (USACO Silver) **2015–17**

Honors and Awards

- **MIT Program for Research in Math, Engineering, and Science (PRIMES)**
Highly-selective year-long high school research program **Jan 2017–Present**
 - 2-person team CS research project involved attacking and defending users' anonymity on Tor Network
 - Independently learned via fast.ai current best practices and techniques for applied deep learning
 - Invited to present at MAA Undergraduate Student Poster Session of 2018 Joint Mathematics Meeting, San Diego
 - First-author of full-length conference paper submitted to a Tier 1 Computer Security conference
 - Re-admitted into 2018 PRIMES program. Currently working on solo project involving adversarial attacks and defenses in theoretical deep learning. Self-studying Linear Algebra, via MIT OpenCourseWare
- **Siemens Competition: Math, Science, Technology - Semifinalist**
Submitted PRIMES 2017 research project **2017**
- **USA Computing Olympiad - Gold Level**
Penultimate level in highly-competitive 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 **2018–Present**

Publications

Bhat, S., D. Lu, A. Kwon, and S. Devadas. Var-CNN and DynaFlow: Improved Attacks and Defenses for Website Fingerprinting. *arXiv*, 2018, (in review at 27th USENIX Security Symposium).

Extra-Curricular Activities

- **AB IdeaLab (AB's Computer Science club)**
○ *Co-Captain (Fall 2017–Present)* *2015–Present*
 - Organize team meetings, write introductory CS teaching material, and assist members with creating and executing original CS projects
 - Planned and executed Major League Hacking local hack day (AB's Hackathon) in Dec 2017
- **ABRHS Marching, Concert, and Jazz Bands**
○ *Principal Tuba (2018–Present), Trumpet (2015–17)* *2015–Present*
 - 3rd chair concert band tuba player at Jan 2018 MMEA Eastern District Senior Festival
 - AB marching band received the gold medal at the 2017 State-level MICCA festival
- **Piano**
○ District Level Winner, Intermediate Class, National Piano Guild Auditions *2007–Present*
- **AB Science Olympiad Team**
○ Member of 15-student team: 1st place at Yale Invitational Tournament *2015–16*

Community Service

- **Boy Scouts of America, Troop 284, Acton, MA**
○ *Eagle Scout (Earned Sep 2016)* *April 2012–Present*
 - Senior Patrol Leader in 2016. Responsibilities included planning troop meetings and campouts and serving as the primary interface between scouts and adult leaders
 - Eagle Scout project involved painting the kitchen set and green screen at Acton TV to enhance the production value of their programming and the quality of their Virtual Set shows
- **Regional Delegate, Central MA Regional Student Advisory Council**
○ Share opinions and solutions about relevant issues facing AB students *2016–Present*
- **Peer Tutor**
○ Assist high school students with their homework, studying, and organizational skills *Fall 17–Present*
- **Volunteer, Science Discovery Museum**
○ Educated children with hands-on science exhibits *Aug 2015–May 2017*

Work Experience

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

Technical Skills

- **Languages:** Java, Python, L^AT_EX
- **Libraries:** Keras, NumPy, TensorFlow
- **OS:** Windows, Linux (Ubuntu)