

# Sanjit Bhat | Résumé

27 Lexington Dr., Acton, MA 01720

📞 (978) 621-1365 • ✉ [sanjit-bhat@csail.mit.edu](mailto:sanjit-bhat@csail.mit.edu)  
🌐 [people.csail.mit.edu/sanjit-bhat](https://people.csail.mit.edu/sanjit-bhat)

## Education

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- **Acton-Boxborough Regional High School** **Acton, MA**  
*Weighted GPA: 4.33/5.0, Unweighted GPA: 3.84/4.0* **2015–Present**  
2017-18: Honors/AP BC Calculus, Physics, U.S. History II, Spanish IV, English III  
2016-17: Honors Pre-Calculus, Chemistry, U.S. History I, Spanish III, English II  
2015-16: Honors Algebra II, Geometry, Biology, World History, Spanish II, English I  
SAT Reading & Writing: 700, Math: 800; Subject Math II: 800, Biology E: 790  
AP Courses: Computer Science A (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

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- **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
  - 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 - 1<sup>st</sup> 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**

## Publications

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**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 27<sup>th</sup> USENIX Security Symposium).

## Extra-Curricular Activities

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- **AB IdeaLab (AB's Computer Science club)**  
○ *Co-Captain (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*
  - 3<sup>rd</sup> 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: 1<sup>st</sup> place at Yale Invitational Tournament *2015–16*

## Community Service

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- **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 homework and organizational skills *Fall 17–Present*
- **Volunteer, Science Discovery Museum**  
○ Educated children with hands-on science exhibits *Aug 2015–May 2017*
- **Volunteer Cameraman, Acton TV**  
○ 2015 Youth Member of the Year award *Aug 2011–Dec 2015*

## Work Experience

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

## Technical Skills

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- **Languages and Frameworks:** Python, Java,  $\LaTeX$ , Keras, NumPy, TensorFlow
- **OS:** Windows, Linux (Ubuntu)