Sanjit Bhat | Curriculum Vitae

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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*
  2018-19: AP Chemistry, Statistics, English Literature, Spanish, Psychology
  ACT Composite (34/36); SAT Subject Test: Math II (800/800), Biology E (790/800)
  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
  - Second-author of workshop paper accepted into top-tier Computer Security workshop
  - Re-admitted into 2018 PRIMES program. Currently working in the Mądry Lab 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 and Preprints

[1] David Lu, **Sanjit Bhat**, Albert Kwon, and Srinivas Devadas. DynaFlow: An Efficient Website Fingerprinting Defense Based on Dynamically-Adjusting Flows. In *Proceedings of the ACM Workshop on Privacy in the Electronic Society*, 2018.

[2] **Sanjit Bhat**, David Lu, Albert Kwon, and Srinivas Devadas. Var-CNN and DynaFlow: Improved Attacks and Defenses for Website Fingerprinting. *arXiv preprint arXiv:1802.10215*, 2018.

Work Experience

- **KTByte Computer Science Academy - Teaching Assistant** **Lexington, MA**
  Assisted students with introductory CS using Java and Processing *July 2015–Jan 2017*
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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
- **AB Science Olympiad Team**
  Member of 15-student team: 1st place at Yale Invitational Tournament *2015–17*

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 *2016–18*
- **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*

Technical Skills

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