# SANJIT BHAT

**Aspiring Researcher & Socially Conscious Tech Enthusiast**

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## EXPERIENCE

### Software Engineering Intern
**RetailMeNot**

📅 May 2020 – August 2020          ⚲ Austin, TX

### Student Researcher
**MIT Program for Research in Math, Engineering, and Science (PRIMES)**

📅 January 2017 – August 2019          ⚲ Cambridge, MA

- Developing Novel Classifiers for Website Traffic Analysis
  - Studied website **information leakage** and designed state-of-the-art **deep learning** model that exploits multi-modal sequence data
  - **First-author** of paper **published** in Privacy Enhancing Technologies Symposium — top **security and privacy** conference
- Improving the Efficiency of Robust Machine Learning
  - Developed **asynchronous parallel** procedure for training **robust machine learning models** and analyzed its effects on **optimization**
  - Demonstrated $26\times$ **speed improvement** and placed 300/2000 at **Regeneron STS** — nation's top high school **science competition**

### Computer Science Instructor
**AlphaStar Academy**

📅 June 2019 – December 2019          ⚲ Santa Clara, CA

- Taught **algorithms** and **problem-solving techniques** for USA Computing Olympiad — nation's top **competitive programming** competition
- Provided **technical** and **stylistic feedback** on students' code and analyzed **algorithm runtimes** to write instructional material

## PROJECTS

### Rethinking Alcohol Safety at Parties
📅 February 2020

- Built app for TreeHacks 2020 that alerts friends to unsafe party situations using their Blood Alcohol Concentration (BAC) and location
- Incorporated **Microsoft Azure**, **Scikit-learn**, **React**, and the **Fitbit API** to infer BAC from real-time heart rate data using **Machine Learning**

### Collaborative Music Synthesis
📅 February 2019

- Enabled **multiple users** to join together and **synthesize music** in **real time** using laptop webcams as instrumental interfaces
- Integrated **OpenCV**, **Google Firebase**, and **JavaScript** for **gesture recognition**, **synchronized databases**, and **music generation**
- Won **first place** at Blueprint — **MIT's premier high school hackathon**

## EDUCATION

### B.S. in Computer Science (**Turing Scholars Honors Program**) & Math
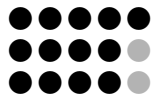**University of Texas at Austin**

📅 May 2023

Rel. Coursework: Graduate Computer Security, Honors Data Structures, Honors Computer Architecture, Honors Linear Algebra
GPA: 3.93/4.0

## TECHNICAL SKILLS

**Python**          ●●●●●
**Java**            ●●●●○
**C/C++**           ●●●●○

TensorFlow   Keras   SciPy

Machine Learning

## AWARDS

- **University Honors**
  UT Austin                          2019, 2020
- **Ehren Kret Endowed Scholarship**
  UT Austin Computer Science          2019
- **Honorable Mention**
  Davidson Fellows Scholarship        2019
  – Top 10 biggest scholarship in world
- **Scholar**
  Regeneron Science Talent Search     2019
  – Nation's oldest and most prestigious science and math competition
- **First Place**
  MIT Blueprint Hackathon             2019
  – MIT's premier high school hackathon
- **Semifinalist**
  Siemens Competition                 2017
  – Premier science research competition
- **Gold Level**
  USA Computing Olympiad              2016
  – Nation's most prestigious high school competitive programming competition
- **Eagle Scout**
  Boy Scouts of America               2016

## PERSONAL INTERESTS

Singing, cooking, reading books and articles, watching documentaries, and learning more about the world's open problems