

SANJIT BHAT

Aspiring Researcher & Socially Conscious Tech Enthusiast

✉ sanjit.bhat@utexas.edu ☎ (978) 621-1365 📍 Austin, TX 🌐 <https://sanjit-bhat.github.io/>
in [linkedin.com/in/sanjit-bhat](https://www.linkedin.com/in/sanjit-bhat) 📄 github.com/sanjit-bhat 🏆 Google Scholar
✔ U.S. Citizen — Eligible to work in the U.S. with no restrictions

EXPERIENCE

Software Engineering Intern

RetailMeNot

📅 May 2020 – August 2020 📍 Austin, TX

- Deployed **Kubernetes Vertical Pod Autoscaler** to prod. **AWS** clusters
- Ran **autoscaling** experiments using custom **Rust** app and **CD** pipeline
- Wrote doc to advise engineering teams on proper autoscaling usage

Undergraduate Researcher (advisor Hovav Shacham)

The University of Texas at Austin

📅 January 2020 – Present 📍 Austin, TX

- Applied **signal processing** techniques on JavaScript **Web Audio API** to construct **indirect timers** that undermine **browser security**

Student Researcher (advisors Srin Devadas and Aleks Mądry)

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**

PROJECTS

Rethinking Alcohol Safety at Parties

📅 February 2020

- Stanford TreeHacks 2020 app 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)

University of Texas at Austin

📅 May 2023

Rel. Coursework, (**Honors**) or (**Graduate**):

- Systems/Security:
 - (**G**) Computer Security
 - (**G**) Cybersecurity Law & Policy
 - (**H**) Operating Systems
 - (**H**) Computer Architecture
- Misc:
 - (**H**) Data Structures
 - (**H**) Linear Algebra
 - (**H**) Discrete Math

GPA: 3.93/4.0

TECHNICAL SKILLS

Languages: Python (5/5), Java (4/5), C/C++ (4/5), Rust (3/5)

Frameworks: Kubernetes, TensorFlow

AWARDS

- **University Honors**
UT Austin 2019, 2020
- **Ehren Kret Endowed Scholarship**
UT Austin Computer Science 2019
- **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