

Rushi Shah

Education

Class of 2020 **University of Texas - Austin**, *Turing Scholar Honors Program*.

B.S. Computer Science & B.S. Mathematics. **GPA: 3.778**

Class of 2016 **Thomas Jefferson High School for Science and Technology (TJHSST)**.

Work Experience

Tokyo, Japan **Amazon**, Summer 2018.

Service to track real-time, location-based purchase trends to tailor recommendations for customers

New York City **Originate**, Summer 2017.

Distributed computing for data center workload analysis (Scala + Spark + Cassandra)

Washington DC **Nclud**, Spring 2015.

Full-stack web development (MeteorJS)

N. Virginia **The MITRE Corporation**, *Federal Aviation Administration Department*.

Summer 2014:

- Computational linguistics algorithms for call-sign identification
- Natural language processing research
 - Analyzed emerging patterns in 12,000 air traffic controller transmissions

Summer 2015:

- Expanded NLP work to over 25,000 transmissions and new emerging patterns
- Edited language model used for the Closed Runway Operations Prevention Device (CROPD)

Other Experience

“UToPiA” **UT Program Analysis Research Group**, *Researcher*, advised by Prof. Isil Dillig.
Applying program synthesis techniques to database-driven web applications.

“ISSS” **UT Information Systems & Security Society**, *Officer*.

TX Votes **TX Votes (non-partisan civic engagement)**, *STEM Committee Chairperson*.
Organized voter registration drive in CS building (one student registered every three minutes).

Open Source Projects

NodeJS **Pynt**, draw data structures as shapes to get the corresponding Python code,
<https://github.com/Pynt/Pynt>.

Haskell **Heckle**, static-site compiler; supports LaTeX/PDF and Markdown/HTML posts,
<https://github.com/2016rshah/heckle>.

Selected Coursework

UT Austin **Computer Science.**

CS 439(H): Operating Systems (Honors)

CS 331(H): Algorithms and Complexity (Honors)

CS 395 T: Program Verification (Graduate)

CS 389 L: Automated Logical Reasoning (Graduate)

Math.

M 341(H): Theoretical Linear Algebra (Honors)

CS 311(H): Discrete Math (Honors)

M 373 K: Abstract Algebra I