Rushi Shah

Education

Class of 2020 **University of Texas - Austin**, *Turing Scholar Honors Program.*
B.S. Computer Science & B.S. Mathematics. **GPA: 3.8**

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

Work Experience

Tokyo, Japan **Amazon**, Summer 2018.
Machine vision algorithms to track real-time, location-based purchase trends in order data

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.*

TA **Teaching Assistant**, *CS 389L Automated Logical Reasoning (Graduate)*, Spring 2019.

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 380 S: Computer Security (Graduate)
CS 389 L: Automated Logical Reasoning (Graduate)

Math.
M 365 C: Real Analysis I
M 373 K: Abstract Algebra I
M 367 K & L: Topology I & Topology II

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