Rushi Shah

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

Double Majoring in Computer Science and 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 (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. Math.

CS 439(H): Operating Systems (Honors)

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

CS 331(H): Algorithms and Complexity (Honors) CS 311(H): Discrete Math (Honors)

CS 395 T: Program Verification (Graduate) M 373 K: Abstract Algebra I

CS 389 L: Automated Logical Reasoning (Graduate)

≥ 2016rshah@gmail.com • Github: 2016rshah • Site: rshah.org/