

# Rushi Shah

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## 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 **MITRE Corporation**, *Federal Aviation Administration Dept.*, Summer 2014-2015.  
Natural language processing research for Closed Runway Operations Prevention Device (CROPD)

## Publications

PLDI'19 **Synthesizing Database Applications for Schema Refactoring**, Yuepeng Wang, James Dong, Rushi Shah, Isil Dillig, *Programming Languages Design & Implementation*.

## Research Background

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

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

“URF” **Undergraduate Research Fellow (URF)**, Spring 2019.

## Other Experience

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

TX Votes **TX Votes (non-partisan civic engagement)**, *STEM Committee Chairperson*.  
Registered >150 voters; hosted Tech & Politics Speaker Series Fall 2018.

“DRP” **Math Directed Reading Program**, *Speaker*, “Gerrymandering Considered Harmful”.

## 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