

# 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)**.

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## 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)

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## Publications

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

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## 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.

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## 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”.

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## Selected Coursework

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| UT Austin | <b>Computer Science.</b>                                 | <b>Math.</b>                                      |
|           | <i>CS 439(H)</i> : Operating Systems (Honors)            | <i>M 365 C</i> : Real Analysis I                  |
|           | <i>CS 331(H)</i> : Algorithms and Complexity (Honors)    | <i>M 373 K</i> : Abstract Algebra I               |
|           | <i>CS 380 S</i> : Computer Security (Graduate)           | <i>M 367 K &amp; L</i> : Topology I & Topology II |
|           | <i>CS 389 L</i> : Automated Logical Reasoning (Graduate) |   |