

# Rushi Shah

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## Education

- Ongoing **Harvard Law School, J.D.**  
Ongoing **Princeton University, Ph.D. Computer Science (Center for Information Technology Policy)**  
May 2020 **University of Texas - Austin, B.S. Computer Science & B.S. Mathematics (Turing Scholar)**  
May 2016 **Thomas Jefferson High School for Science and Technology (TJHSST)**

## Work Experience

- Summer **UT Program Analysis Research Group, Research Assistant, Austin**  
2019
  - Presented paper called “*Synthesizing Database Programs for Schema Refactoring*” (third author) at top-tier Programming Languages Design & Implementation (PLDI) conference
  - Implemented prototype tool in Java programming language for paper called “*Data Migration using Datalog Program Synthesis*” (second author) in top-tier Very Large DataBases (VLDB) conference

Spring **CS 389L Automated Logical Reasoning (graduate level class), Teaching Assistant**  
2019
  - Served as Teaching Assistant for 60 Master’s and Ph.D. students; graded weekly proof-based homeworks; held well-attended weekly office hours; helped grade midterm and final exam

Summer **Amazon, Software Engineering Intern, Tokyo, Japan**  
2018
  - Elegantly reduced the task of tracking real-time, location-based purchase trends in Amazon order data to leverage an edge-detection algorithm (a traditional machine vision technique)
  - Implemented a service based on above approach using the Java programming language, the Python programming language, the OpenCV library, and Amazon Web Services tools like S3 and EC2

Summer **Originate, Software Engineering Intern, New York City**  
2017
  - Worked at this software consulting firm in Manhattan on a data center workload analysis contract

Summer **MITRE Corporation, Research Assistant, Washington DC**  
2014, 2015
  - Worked for the Federal Aviation Administration (FAA) at this federally-funded R&D center to improve the Closed Runway Operations Prevention Device (CROPD) which prevents plane crashes
  - Adapted computational linguistics algorithms to call-sign identification task in over 25,000 transmissions; edited strict language model based on air traffic controller’s emerging speech patterns

## Publications

- Sept. 2020 **Data Migration using Datalog Program Synthesis**, Yuepeng Wang, [Rushi Shah](#), Abby Criswell, Rong Pan, Isil Dillig, *Proceedings on Very Large DataBases (VLDB ’20)*  
March 2020 **TX Felon Disenfranchisement Enables Institutional Racism**, [Rushi Shah](#), *The Daily Texan*  
June 2019 **Synthesizing Database Programs for Schema Refactoring**, Yuepeng Wang, James Dong, [Rushi Shah](#), Isil Dillig, *Programming Languages Design & Implementation (PLDI ’19)*

## Leadership

- 2017-2020 **TX Votes (non-partisan civic engagement), STEM Committee Chairperson**
  - Threw voter registration drive in Computer Science building, organized four *Tech & Politics Speaker Series* events, and personally registered over 250 voters

## Speaking Engagements

- Dec. 2018 **Moderator, Tech & Politics Speaker Series**, Prof. Hovav Shacham on Election Security  
Nov. 2018 **Speaker, Math Directed Reading Symposium**, “Gerrymandering Considered Harmful”  
Apr. 2018 **Speaker, Turing Lightning Talks**, “Voting! For fun & profit.”  
Feb. ’18, ’19 **Moderator, Great Conversations Gala**, Annette Strauss Institute For Civic Life