

Rushi Shah

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Education

- Ongoing **Harvard Law School**, *J.D. (joint degree)*
Ongoing **Princeton University**, *Ph.D. Computer Science (joint degree)*
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

- 2020 - **Center for Information Technology Policy (CITP)**, *Research Assistant*, Princeton, NJ
Present
 - Leading ongoing research to quantitatively track pathways to far-right radicalization on the internet
 - Results will guide interventions for viral alt-right, white supremacist, and neo-Nazi extremist content
 - Collaboration with Mozilla allows analysis across multiple platforms (YouTube, Reddit, Parler, 4chan, etc.)
 - Responsible for every aspect of project: reviewing interdisciplinary literature, designing research questions, drafting IRB documents, and implementing code for internet measurements

Summer 2019 **UT Program Analysis Research Group (UToPiA)**, *Research Assistant*, Austin, TX
 - 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) at top-tier Very Large DataBases (VLDB) conference

Spring 2019 **CS 389L Automated Logical Reasoning**, *Teaching Assistant*, Austin, TX
 - Graded proof-based weekly homeworks and exams & held office hours for 60 Master’s and Ph.D. students

Summer 2018 **Amazon**, *Software Engineering Intern*, Tokyo, Japan
 - 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) and prototyped the service

Summer 2014, 2015 **MITRE Corporation**, *Research Assistant*, Washington DC
 - Worked on the FAA’s Closed Runway Operations Prevention Device, which prevents plane crashes
 - Adapted computational linguistics algorithms to call-sign identification task in over 25,000 transmissions and edited the strict language model based on air traffic controller’s emerging speech patterns

Publications

- Jan. 2021 **Defund the Police After the Jan. 6th Coup Attempt**, [Rushi Shah](#), *The Daily Princetonian*
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)*

Speaking Engagements

- Oct. 2020 **Moderator**, *Tech & Society Reading Group*, Matt Bernhard on Election Security
Nov. 2018 **Speaker**, *Math Directed Reading Symposium*, “Gerrymandering Considered Harmful”
Apr. 2018 **Speaker**, *Turing Lightning Talks*, “Voting! For fun & profit.”

Organizations

- 2020-2021 **Princeton Students for Prison Education, Abolition, and Reform (SPEAR)**
2017-2020 **TX Votes (non-partisan civic engagement)**, *STEM Committee Chairperson*