

# 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 **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)

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## 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 **TX Votes (non-partisan civic engagement)**, *STEM Committee Chairperson*.
- TA **Teaching Assistant**, *CS 389L Automated Logical Reasoning (Graduate)*, Spring 2019.

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## 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>.

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## Selected Coursework

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