

# Rushi Shah

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## Education

- Class of 2020 **University of Texas - Austin**, *Turing Scholar Honors Program*.  
Ranked among US News and World Report's Top 10 Computer Science Programs.
- Class of 2016 **Thomas Jefferson High School for Science and Technology (TJHSST)**.  
Ranked among US News And World Report's Top 5 Public High Schools.

## Work Experience

- The MITRE Corporation **Computer Science Intern**, *Federal Aviation Administration Department*, Python.  
**Summer 2014**
- Created and analyzed the performance of various call-sign identification algorithms
  - Conducted natural language processing research on over 12,000 air traffic controller transmissions into the use of prefixes before call signs by air traffic controllers.
- Summer 2015**
- Expanded NLP work to over 25,000 transmissions
  - Analyzed the use of separators between runway identifiers and clearances
  - Expanded strict language model used for the Closed Runway Operations Prevention Device (CROPD) to boost the accuracy of the speech recognition engine.
- Nclud **Computer Science Intern**, Javascript (client and server-side).  
**Spring 2015**
- Web-development intern at Nclud (a Washington DC based Web Design Firm)
  - Worked on Nclud's new re-branded website
  - Worked on website for George Mason University's marching band (the GreenMachine)
  - Pair programming in JavaScript including the Meteor framework and ThreeJS animations.

## Projects

- NodeJS **Pynt**, draw data structures as shapes to get the corresponding Python code. Created at Yale's Hackathon 2014, <https://github.com/Pynt/Pynt>.
- Ruby **Github Chart API**, embed github contributions calendar into HTML as an image, <https://github.com/2016rshah/githubchart-api>.
- Haskell **Heckle**, static site compiler that supports LaTeX and Markdown entries, <https://github.com/2016rshah/heckle>.

## Language Familiarity

- 4 years JAVA  
3 years PYTHON, JAVASCRIPT  
2 years RUBY  
1 year HASKELL  
< 1 year ELIXIR

## Relevant Coursework

- TJHSST Data Structures  
Artificial Intelligence I and II
- UT Austin M 427L: Applications of Vector Calculus  
CS 314H: Honors Data Structures  
CS 311H: Honors Discrete Math
- Online CIS 194: Introduction to Haskell

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