

# 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

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

## Relevant Coursework

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