

# 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.

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## Work Experience

**The MITRE Corporation** **Computer Science Intern**, *Federal Aviation Administration Department*, **Python**.  
**Summer 2014**

The first year I created and analyzed the performance of various call-sign identification algorithms and 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**

The second year I expanded my NLP work to over 25,000 transmissions and analyzed the use of separators between runway identifiers and clearances. I culminated my research by expanding the 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**

I was a web-development and web-design intern at Nclud (a DC-based Web Design Firm). While there I assisted on various projects such as the Nclud rebrand, the GreenMachine site, and the extremely important Meteor-Twitter pun app. Most of my work was in JavaScript including the Meteor framework and ThreeJS animations.

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## 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>.

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## Language Familiarity

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

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## 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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