

# Rushi Shah

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## Education

Graduating **Thomas Jefferson High School for Science and Technology (TJHSST)**.  
Class of 2016 Thomas Jefferson has been Newsweek's #1 high school for two years in a row and is consistently ranked within the Top 5 High Schools by the US News and World Report.

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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 **BLaTeX**, static site compiler that allows you to write blog entries in LaTeX, <https://github.com/2016rshah/BLaTeX>.

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## Computer Science Language Experience

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

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