

Rushi Shah

Education

Graduating Class of 2016 **Thomas Jefferson High School for Science and Technology (TJHSST).**
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.

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.

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>.

Computer Science Languages

Fluent JAVA, PYTHON, JAVASCRIPT, HASKELL, RUBY, L^AT_EX

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