

Navraj Narula – Aspiring Engineer



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<https://navierula.github.io>

INTERESTS

- Information retrieval via applications of NLP, text mining, and sentiment analysis
- Assistive technology in terms of web design or robotics
- Hackerspace innovation and collaboration
- Creative storytelling

SKILLS

Programming Languages

- Python, HTML, SQL (Fluent), CSS, Java, Javascript, Haskell, C (Learning)

Spoken Languages

- English, Thai (Fluent), Punjabi, Spanish (Learning)

EDUCATION

M.S. in Computer Science

Columbia University

Expected May 2018

- Concentrating on digital storytelling within Columbia Journalism School

B.A. in Computer Science

Boston University

Completed May 2016

- Additional majors in English literature and secondary education
- Joan Dee and Boyd Dewey Book award recipient
- Essay prize winner
 - Featured work in BU WR Journal and Harvard Summer Review
- Avid hackathon attendee

EXPERIENCE

Digital Products Intern - MIT Press - Cambridge, MA

- Utilized Python in scripting design to further ePub automation over manual creation
- Validated pre-final versions of XML/HTML documents
- Bookmarked PDFs to prepare releases for mobile book versions

Data Storytelling Researcher - Boston University Hariri Institute for Computing - Boston, MA

- Designed a database schema and implemented an entire database in MySQL Workbench for a confidential story study alongside Professor Maggie Mulvihill
- Received grant to attend NICAR and attended workshops focused on data visualizations via Python and R
- Documented research findings for professor and participating students

Technical Education Intern - Cambridge Community Television - Cambridge, MA

- Assisted community members over the age of 50 with programming, image/content editing, Office or iWork navigation, and general computer assistance
- Enrolled in CCTV-offered classes to further knowledge of editing tools, particularly Final Cut Pro

Course Grader - Boston University Computer Science Department - Boston, MA

- Provided numerical grades for assignments in SQL, Python, and Weka for Introduction to Databases and Data Mining, under direct supervision of Dr. Dave Sullivan

PROJECTS

Mining the Popular Hashtag

- Devised a sentiment analysis tool in Python to classify tweets

Randomness vs. Restriction in Markov Models of Natural Language

- Compared self-developed baseline algorithm of poetry generation against word-tag pair restriction of algorithm
- Heavily utilized Python's NLTK library