NAVRAJ NARULA

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EDUCATION

M.S. in Computer Science and Journalism   Spring 2018
Columbia University – New York, NY

B.A. in Computer Science, English, and Education   Spring 2016
Boston University – Boston, MA

WORK

Course Assistant – Computing in Context (Python)   Current
Columbia Engineering – New York, NY
Selected as 3 of 10 course assistants to lead lab sections of 20+ undergraduates, engage with students in office hours and on Piazza, grade 100+ assignments

Digital Products Intern   Summer 2016
MIT Press – Cambridge, MA
Implemented functions in Python script to automate ePub creation, validated parsing errors in XML/HTML documents, bookmarked PDF textbook files

Data Storytelling Researcher   Spring 2016
Boston University Computer Science – Boston, MA
Created schema and implemented an entire database using MySQL Workbench to aid researcher, Maggie Mulvihill, in collecting information for a confidential story

Course Grader – Introduction to Databases and Data Mining   Spring 2015 –2016
Boston University Computer Science – Boston, MA
Graded assignments in SQL, Python, and Weka

PROJECTS

Markov Text Generation on Poetry
Devised baseline and advanced algorithm using Python's NLTK library to produce coherent text based off Richard Wright's poetry, conduced 74-participant survey that demonstrated an error rate of < 30% on selected outputs

Superhero and Archenemy Relational Database
Created a database consisting of 11 relations in MySQL Workbench depicting fictional comic book relationships, wrote 1000+ lines of code in Python to access DB operations such as insertion, deletion, and selection

Sentiment Analysis of Trending Hashtags on Twitter
Utilized tweepy library and Twitter API to access tweets by hashtag and categorized trending topics under positive or negative category based on self-devised scoring algorithm written in Python

SKILLS

Coding Python, SQL, HTML (Fluent) – Java, C, C++ (Proficient) – Javascript, R, Ruby on Rails (Learning) – Active CodeAcademy user

Writing Awarded by Harvard University and Boston University for excellence in academic writing – Fluent in AP and MLA style, practicing technical writing

Teaching Experienced in elementary-level teaching of mathematics and personal one-on-one tutoring for all grade levels