AKRITI SINGH

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EDUCATION

University of California, Berkeley   August 2015 - May 2019
B.A. in Computer Science, Data Science

Relevant Courses:

Foundations/Principles of Data Science (DATA8, CS100)   Computer Architecture & Operating Systems (CS61C, CS162)
Data Structures & Algorithms (CS61B, CS170)   Databases & Internet Architecture (CS186, CS168*)
                                                             Artificial Intelligence & Machine Learning (CS188, CS189*)

EXPERIENCE

Software Development Intern at Amazon, Alexa SmartHome   May - August 2018
- Designed and built a distributed web system to be used as an internal testing portal for developers, with integrations to AWS S3, simple queue service (SQS) for reliable job management, and DynamoDB for result storage
- Used Spring MVC framework with Java to build a web interface where users can select tests to run and query the database for test run history, and built the web service to manage running the integration tests

Data Science Intern at Riptide   January - May 2017
- Used SQL and Python (Pandas, NumPy) to analyze business data to learn about user interaction with the messaging platform, and made visual representations of findings (using matplotlib, seaborn)
- Wrote Python scripts to parse pdf invoices, made a Slackbot to query MySQL database

Product Design Consultant at Berkeley Innovation   September 2016 - December 2017
Worked on a team to design the user experience, interface, and information architecture for local tech startups: SmartPhage (mobile health tracking application), and Lecida (web app for predictive maintenance for machinery):
- Conducted user interviews, did background research and competitive analysis, and synthesized insights
- Created low-fidelity (paper), mid-fidelity (Figma), and hi-fidelity (Sketch) prototypes with 20+ screens
- Conducted usability testing and reiterated based on common frustrations

Teaching   January 2016 - present
TA for Data8: Led a group of 30 students through weekly worksheets and labs testing core CS & data science fundamentals, helped develop practice questions, and explained concepts 1-on-1 and in small groups
Lab teacher for CS Kickstart, a 1 week introductory program for freshmen: Taught CS concepts including recursion, sorting algorithms, and data structures, and led 35 students through a photo-manipulation project in Jython
Teaching assistant for Intro to Illustrator & Photoshop class: Helped teach a class of 40 students to use softwares from Adobe Creative Cloud and advanced techniques for graphic design projects, including posters, logos, and flyers

PROJECTS

Youtube Analytics   *Python (scikit-learn, pandas),* May 2018
Used a dataset of trending Youtube videos to create a model to predict user engagement with a video (comments/likes) from the uploader's descriptors (title, description, and tags)

Personalized Yelp   *Ruby on Rails, HTML/CSS/Javascript, Illustrator,* August 2017
Built a web app using Yelp & Google Places API that allows users to search for restaurants, view details, and upload their own reviews and photos. Allows users to organize their food photos by restaurant, and summarizes multiple reviews for each restaurant with detailed rankings by quality, service, quantity, etc.

Text Editor   *Java,* March 2016
Built a text editor with scrolling, undo/redo, open/save, changing font size, word-wrapping, and clicking functionalities

SKILLS

Programming Languages: Python, Java, SQL, HTML/CSS, Ruby, C, R*, Javascript*
Frameworks/Packages: Ruby on Rails, Spring, NumPy, Pandas
Database/Software Tools: MySql, IntelliJ, Xcode
Design Softwares: Adobe Illustrator/Photoshop, Sketch, Figma