

AKRITI SINGH

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EDUCATION

University of California, Berkeley

August 2015 - May 2019

B.A. in Computer Science, Minor in Statistics

Statistics/Data Science Courses: Discrete Math and Probability Theory (CS70), Concepts of Probability (STAT134), Foundations of Data Science (DATA8), Principles of Data Science (CS100), Concepts of Statistics (STAT135)*

CS Courses: Structure and Interpretation of Computer Programs (CS61A), Data Structures and Algorithms (CS61B), Computer Architecture (CS61C), Efficient Algorithms and Intractable Problems (CS170), Databases (CS186)*, Intro to Artificial Intelligence (CS188)*

EXPERIENCE

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)

Product Design Consultant at Berkeley Innovation

September 2016 - present

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):

- Met with clients weekly to pitch ideas and get feedback
- Conducted user interviews, did background research and competitive analysis
- 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

Staff Tutor for Data8: Led group and one-on-one tutoring sessions for course material (including data manipulation, statistics & probability, and basic modeling), and will help develop material & projects

Academic Intern for CS61A and CS61B: Guided 30 students through weekly assignments, projects, and understanding core concepts taught in lecture, including recursion, data structures, sorting algorithms, and more.

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

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.

Bear Maps

Java, April 2016

Built a web mapping application inspired by Google Maps which efficiently re-rasters segments of the map when scaling/zooming or dragging, and implemented location search and A* algorithm for routing

Text Editor

Java, March 2016

Built a text editor with scrolling, undo/redo, open/save, changing font size, word-wrapping, and clicking functionalities

Tasker

Ruby on Rails, HTML/CSS, Illustrator, December 2015

Built a social networking web app that allows users to share their to-do list with friends, comment on their friends' activity, and receive messages to work together and form study groups

SKILLS

Programming Languages: Python, Java, SQL, HTML/CSS, Ruby, C, Objective-C, R*, Javascript*

Frameworks/Packages: Ruby on Rails, NumPy, Pandas

Database/Software Tools: MySQL, IntelliJ, Xcode

Design Softwares: Adobe Illustrator/Photoshop, Sketch, Figma, Microsoft Office Suite