

Kunal Dutta

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EDUCATION

University of California, Berkeley

December 2021

Bachelor's of Arts, Computer Science | GPA: 3.55

Relevant Coursework: Data Structures; Efficient Algorithms and Intractable Problems; Discrete Mathematics and Probability Theory;
Computational Structures in Data Science; Linux System Administration; Machine Structures; Linear Algebra

SKILLS

Software Development: Python, Java (Android Studio, JUnit, GET requests), Git version control

Web Development: JavaScript (D3.js), HTML, CSS, Django

Data Analytics: Python (Pandas, Numpy), SQL, Microsoft Office

System Administration: Shell scripting, Linux/Unix

PROJECTS

NBA Analysis

Personal/Club Project

July 2019 - Present

<https://github.com/kdutta9/nba-analysis>

- Used linear regression to determine the value of NBA draft picks based on position, via statistics on production and career growth.
- Analyzed signings in free agency to generate grades based on projected yearly value compared to total salary.
- Tools Used: Python (SKLearn, Pandas, Numpy); Jupyter Notebook

Statistics Course Guide

Club Project

August - December 2019

<https://github.com/SUSA-org/usa-website>

- Designed and implemented a course guide for the statistics department in the style of a directed acyclic graph.
- Colored nodes of graph to indicate subject focus, added arrows for prerequisites, and highlighted related nodes when clicked.
- Tools Used: JavaScript (D3.js), HTML, CSS

Gitlet

School Project

December 2019

<https://github.com/kdutta9/coursework/tree/master/cs61b/gitlet> (private)

- Implemented a lightweight version control system capable of tracking and committing file additions, modifications, and deletions.
- Created features to display status of repository, create branches, and revert to previous saved iterations of repository.
- Tools Used: Java (Files, JUnit, IntelliJ)

Ebay Scam Detector

Hackathon Project (University of Washington Hackathon 2019)

October 2019

<https://github.com/kdutta9/FakesList>

- Implemented heuristics and data analysis tools to flag potentially fraudulent EBay listings.
- Created a training and testing set by web scraping product details, using BeautifulSoup and WordNet.
- Tools Used: Python (BeautifulSoup BS4, WordNet, Pandas), Jupyter Notebook

Privacy Guard

Hackathon Project (Cal Hacks 5.0)

November 2018

<https://github.com/kdutta9/PrivacyGuard>

- Designed an application which sends GET requests to close incognito tabs when door opens.
- Used magnetic field sensing capabilities in Android phones to detect opening and closing of doors.
- Tools Used: Java (Android Studio, GET Requests)

EXPERIENCE

UC Berkeley Electrical Engineering & Computer Sciences | Berkeley, CA

Computer Science Tutor

January 2019 - Present

- Assist lab sections in the Foundations of Data Science (CS C8) and Computational Structures (CS 88, CS 61A) courses.
- Tutor students through projects, focusing on statistical inference, data analysis, and code structure using Python/SQL.
- Oversee office hours and tutoring sections to further assist students who requested additional help on conceptual topics.