Kunal Dutta

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EDUCATION

University of California, Berkeley   December 2021
Bachelor's of Arts, Computer Science |**GPA: 3.59**
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, C (learning)
Web Development: HTML, CSS, JavaScript (learning), Django (learning)
Data Analytics: Python (Pandas, Numpy), SQL, Microsoft Office, R (learning)
System Administration: Shell scripting, Linux/Unix, C (learning)

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 Beautiful Soup 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 Academic Intern/Tutor   January 2019 - December 2019
- 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.