SAJAL SHARMA

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education

University of California, Berkeley

Berkeley, CA — August 2017 – May 2021

BA Computer Science, BA Economics — GPA: 3.8

- ***Completed Coursework***: Data Structures and Algorithms, Discrete Mathematics and Probability Theory, Data Science, Designing Information Devices and Systems, Probability and Mathematical Statistics in Data Science
- ***Current Coursework***: Artificial Intelligence, Efficient Algorithms and Intractable Problems, Multivariable Calculus

experience

UC Berkeley College of Engineering

Course Staff — August 2018 – December 2018

- Led office hours to help students strengthen their understanding of Discrete Mathematics and Probability Theory
- Aided in the instruction of stable marriage algorithm, modular arithmetic, RSA encryption, statistics, and probability

RoboBears at UC Berkeley

Web Developer — July 2018 – Present

- Redesigned and manage the website for RoboBears with new developments, including recruitment and projects
- Improved navigation and user experience by better organizing content

Berkeley Institute of Data Science

Undergraduate Researcher — September 2017 – May 2018

- Created API packages that allow users to search for datasets by keywords and load results into Jupyter Notebook
- Designed an extension to help visualize and explore data within Dataverse using Jupyter Notebook

projects

Waste Less

Personal Project — November 2018

- iOS app with Firebase back-end integration that tracks the expiry dates of produce and helps eliminate food waste
- Scans barcodes and QR codes using the AVFoundation framework to add new items to the user's fridge
- Provides analytics on food waste habits using Map Kit and Charts

Amazons

Personal Project — October 2018

- Developed an AI for the two-player strategy game that finds the optimal move using a minimax algorithm
- Uses alpha-beta pruning to efficiently traverse the game tree when the search depth or branching factor is high

DoEverythingBar

Cal Hacks — October 2017

- Designed a command interpreter for web browsers that allows general users to control everyday applications
- Added Google Suite and Skype functionality by using the Google Maps, Google Calendar, and Skype Call APIs
- Integrated OAuth authentication to securely gain access to and write to a user's account

skills

- ***Programming Languages***: Python, Java, HTML, CSS, Swift, SQL, Scheme
- ***Libraries and Frameworks***: NumPy, Pandas, Scikit-learn, Seaborn, Matplotlib, JUnit, Bootstrap
- ***Platforms and Services***: Git/GitHub, Firebase, Google APIs

honors and awards

Dean's Honor List — August 2017 – August 2018

Best Web Application at Cal Hacks — October 2017

Cal Hacks Finalist (top 6 among 216 team entries) — October 2017

Summa Cum Laude — May 2017