

SAJAL SHARMA

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education

University of California, Berkeley

Berkeley, CA

August 2017 – May 2021

Bachelor of Arts, Computer Science

- **Coursework:** Data Structures and Algorithms, Artificial Intelligence, Efficient Algorithms and Intractable Problems, Computer Architecture, Discrete Mathematics and Probability Theory, Designing Information Devices and Systems

Bachelor of Arts, Economics

- **Coursework:** Microeconomic Analysis, Macroeconomic Theory, Financial Economics, Principles and Techniques of Data Science, Multivariable Calculus, Probability for Data Science

experience

VMware, Inc.

Product Development Intern

May 2019 – Present

- Working within the Network and Security Business Unit on developing an internal tool that simplifies and increases the readability of system logs for the VMware NSX Escalations Team

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

activities

Upsilon Pi Epsilon: Nu Chapter

Industrial Relations Chair

May 2019 – Present

- Responsible for securing partner companies and organizing corporate info-sessions for Computer Science students

Computer Science Mentors

Senior Mentor

January 2019 – Present

- Lead an adjunct section to help students better their understanding of Discrete Mathematics and Probability Theory
- Cover stable marriage algorithm, graph theory, modular arithmetic, RSA encryption, Markov chains, and statistics

RoboBears at UC Berkeley

Web Developer

July 2018 – Present

- Redesigned and manage the website for RoboBears with new developments, including recruitment and projects

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

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, TypeScript/JavaScript
- **Libraries and Frameworks:** NumPy, Pandas, Scikit-learn, Seaborn, Matplotlib, JUnit, Bootstrap, Angular
- **Platforms and Services:** Git/GitHub, Firebase, Google APIs

honors and awards

Best Web Application at Cal Hacks

October 2017

Cal Hacks Finalist (top 6 among 216 team entries)

October 2017

Summa Cum Laude

May 2017