SAJAL SHARMA

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education

University of California, Berkeley 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. May 2019 – August 2019

Product Development Intern Palo Alto, CA

- Worked on the NSX Escalations team to develop two full-stack applications using Angular, Node.js, and REST APIs
- Created an analytics dashboard that improved load balancing for Edges and Edge Clusters in an NSX system
- Designed and wrote a Python script to decompress support bundles, extract relevant files, and cleanse and reshape data
- Automated data extraction from system logs and consolidated key statistics in a troubleshooting dashboard, reducing the time required to model the architecture of each NSX configuration from 60 minutes to less than 3 minutes

Berkeley Institute of Data Science September 2017 – May 2018

Undergraduate Researcher Berkeley, CA

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

activities

Upsilon Pi Epsilon May 2019 – Present

Industrial Relations Chair

- Secure corporate partnerships, organize company info-sessions, and host guest speakers for Computer Science students

Computer Science Mentors January 2019 – Present

Senior Mentor

- Lead an adjunct section to help students strengthen their understanding of Discrete Mathematics and Probability Theory
- Present short lectures and guide students through problem-based worksheets to help improve their performance

RoboBears July 2018 – Present

Web Developer

- Redesigned the website to simplify navigation and better organize content, including recruitment, projects, and events

projects

Jane Street Electronic Trading Challenge February 2019

- Wrote an algorithm to trade bonds, ADRs, and ETFs to maximize profit against other teams in a simulated market
- Finished among the top 6 from the 30 teams competing at the event hosted for UC Berkeley students

Waste Less 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 October 2017

- Developed a command interpreter for web browsers that allows general users to control everyday applications
- Added Google Suite and Skype functionality by using OAuth, Google Maps API, Google Calendar API, and Skype Call API
- Won Best Web Application at Cal Hacks and was selected as a Cal Hacks Finalist (top 6 among 216 team entries)

skills

- ***Programming Languages***: Python, Java, C, JavaScript, TypeScript, HTML, CSS, Swift, SQL
- ***Libraries and Frameworks***: NumPy, Pandas, Scikit-learn, Matplotlib, Node.js, Express.js, Angular, Clarity, Bootstrap
- ***Platforms and Services***: Git/GitHub, Firebase, Google APIs