SAJAL SHARMA

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education

University of California, Berkeley   August 2017 – May 2021
BA in Computer Science, BA in Economics, BA in Data Science
- ***Coursework***: Data Structures, Computer Architecture, Computer Security, Operating Systems, Database Systems, Efficient Algorithms, Discrete Mathematics and Probability Theory, Multivariable Calculus, Artificial Intelligence, Machine Learning, Macroeconomic Theory, International Trade, Monetary Economics, Econometrics, Investments

experience

Apple Inc.   May 2020 – August 2020
Software Development Intern   Cupertino, CA
- Developed a full-stack application to help the Tech Operations team manage support tickets, track inventory, and approve facility access using a ReactJS and Redux front-end, a PostgreSQL database, and a Laravel PHP API
- Created a CRON job in PHP to automate parsing new emails and adding their data to the support tickets database
- Integrated microservices for authenticating employees, managing data, and creating interface components
- Built an NPM package to handle calls and responses between the application and the various back-end APIs
- Configured a Jenkins CI/CD pipeline for integration testing and used Docker for local development

VMware, Inc.   May 2019 – August 2019
Product Development Intern   Palo Alto, CA
- Worked on the NSX team to develop two full-stack applications using Angular, Node.js, Express.js, and REST APIs
- Created an analytics dashboard that improved load balancing for Edges and Edge Clusters in an NSX system
- Wrote a Python script to decompress support bundles, extract relevant files, and cleanse and reshape data using Pandas
- 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 Division 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 datasets within Dataverse using Jupyter Notebook

activities

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

Upsilon Pi Epsilon   May 2019 – May 2020
Industrial Relations Chair
- Secured corporate partners, organized company info-sessions, and hosted guest speakers for Computer Science students

projects

Personal Trading Algorithms   May 2020
- Developed and trained a LSTM neural network in TensorFlow to find trends in closing prices for better swing trading

Jane Street Electronic Trading Challenge   February 2019
- Wrote a Python script 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
- Command interpreter to navigate Google Suite and Skype using OAuth, Google Maps, Google Calendar, and Skype APIs
- 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, JavaScript/TypeScript, C, HTML, CSS, Swift, Go, SQL
- ***Libraries and Frameworks***: ReactJS, Angular, Redux, Node.js, Express.js, Bootstrap, Pandas, Scikit-learn, SciPy
- ***Platforms and Services***: Docker, Jenkins CI/CD, NPM, Git, Firebase, Microsoft Office