SAJAL SHARMA

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education

University of California, Berkeley   August 2017 – May 2021
B.A. Computer Science, B.A. Economics, B.A. Data Science
- *Coursework*: Data Structures, Computer Architecture, Computer Security, Operating Systems, Database Systems, Algorithms, Discrete Mathematics and Probability Theory, Multivariable Calculus, Artificial Intelligence, Machine Learning

experience

Apple Inc.   July 2021 – Present
Software Engineer   Cupertino, CA
- Backend engineer on the Apple Media Products, Core Services team

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
- 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
- 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 over 60 minutes to less than 3 minutes

activities

Computer Science Mentors   January 2019 – May 2021
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

Berkeley Division of Data Science   September 2017 – May 2018
Undergraduate Researcher
- 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

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*: Java, Python, 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