PRIYANS N DESAI

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EDUCATION

University of California, Berkeley August 2018 - Spring 2022 (Expected)
Bachelor of Arts in Computer Science (Major) and Data Science (Minor) GPA: 3.8/4.000

RELEVANT COURSEWORK

Computer Programs, Data Structures, Info. Devices & Systems, Machine Structures, Techniques of Data Science, Algorithms, Artificial Intelligence, Databases, Probability in Data Science, Computer Security, Operating Systems

WORK & RESEARCH EXPERIENCE

Software Engineering Intern — Bank of America June 2021 - August 2021

- Developed a Maven Plugin to auto-generate a fully-configured Backend Server in Java based on IDL (Interface Data Language) definitions.
- Developed utility services to successfully integrate IDL-based backend servers such automated creation of IDL definitions based on Database schemas.
- Integrated with MuleSoft API Exchange Catalogue by custom service for auto-generating API Specification.

Undergraduate Research Assistant — RISE Lab March 2021 - Present

- Devised an efficient algorithm for diagonalization of matrices for the scalable NumS project. NumS is Numpy but for distributed systems.
- Developed an improvement for reshape of matrices. Working on implementing operator fusion for matrix operations in NumS.

Software Engineering Intern — Scanta May 2020 - August 2020

- Built an engine for entity extraction for $\tilde{4}0$ entities and deviation to prevent adversarial attacks.
- Developed optimized services using Azure EventHub API for parallel processing of chatbot conversations.
- Developed services for text extraction and analysis from scanned images, for detecting adversarial attacks.

Software Engineering Intern — Doctor Insta June 2019 - July 2019

- Optimized querying services by reducing server resources by 70% and increasing load speed by 40%.
- Upgraded UI for client portals using Chart.js and AdminLTE libaries with Selenium automated testing.

PROJECTS

BearKeeper — View Project React.js & FireBase API
Web-app for task-scheduling for Berkeley courses. Used FireBase API to fetch saved tasks from the database.
Gitlet — Email to view source code Java
A version of Git with all almost all features, including pull, push. A custom-suited Dijkstra's algorithm for implementing the merge feature.
COVID-19 Data Classification & Regression Models — View Source Code Python & Scikit-learn
Created a classification model for classifying countries on the levels of Coronavirus transmission as of May 2020.

TOOLS & TECHNOLOGIES

Proficient: Python, Java, SQL, Pandas, FireBase, Spring Boot, Protocol Buffers, Quartz
Familiar: C, RISC-V, Flask, React.js, Ruby on Rails, Kafka, Maven, MuleSoft AnyPoint, Kibana

TEACHING EXPERIENCE

Head Lab TA & Tutor — Electrical Engineering & Computer Sciences Course Jan 2020 - Present

- Managing the lab component for 1000+ students in introductory EE courses, including scheduling, logistics, online-labs and hiring.
- Teaching other introductory CS courses such as Data Structures and Advanced Data Science.