

PRIYANS NISHITHKUMAR DESAI

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EDUCATION

University of California, Berkeley

August 2018 - Spring 2022 (Expected)

Bachelor of Arts in Computer Science and Minor in Data Science

GPA: 3.844/4.000

RELEVANT COURSEWORK

Computer Programs, Data Structures, Discrete Mathematics, Probability Theory, Information Devices & Systems, Machine Structures (enrolled), Data Science, Techniques of Data Science, Algorithms (enrolled), Artificial Intelligence (enrolled), Ruby on Rails, React.js, Fundamentals of Investing

WORK & RESEARCH EXPERIENCE

Software Engineering Intern — Scanta

May 2020 - Present

- Building an engine for entity extraction for 40 entities and deviation to prevent adversarial attacks.
- Developed optimized services using Azure EventHub API for parallel processing of chatbot conversations.
- Developing services for text extraction and analysis from scanned images, for detecting adversarial attacks.
- Contributed to building an Outlier Detection infrastructure by training a model using different extracted entities as features, to identify anomalous behaviour.
- Setup various CLI tools for presenting demos related to Membership Inference Attacks and NLP Text Attack

Software Engineering Intern — Doctor Insta

May 2019 - August 2019

- Optimized querying services by reducing server resources by 70% and increasing load speed by 40%.
- Upgraded UI for client portals using Chart.js, FooTable and AdminLTE libraries.
- Developed devops tools for automated testing using Selenium Libraries

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.

SuitableFind — View Project

Python & Terminal Based

A recommendation engine for Berkeley CS courses, adjusted as per user interests. Features like PreReq satisfaction, CourseLoad indicator Combination of courses, CoursePlanner

Lecture Speed Tracker — View Source Code

Flask & FireBase API

Built an online lecture tracker to boost interactivity. Features both instructor and student-facing views. Instructors can ask for feedback on-demand

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.

Clubs & DeCal Communication System — View Source Code

Ruby on Rails

A web-app for interaction between student orgs and students, and submit applications for membership.

TOOLS & TECHNOLOGIES

Proficient: Python, Java, SQL, Pandas, NumPy, Django, FireBase

Familiar: Flask, React.js, Ruby on Rails

EXTRA CURRICULAR ACTIVITIES

EECS 16B Lab Academic Student Employee

January 2020 - Present Currently

helping students complete a robotic voice-controlled car which uses SVD/PCA, Linear Approximation, Controls (Eigenvalue Placement). Assisting TAs in other logistics matters of the course

CSM Junior Mentor for lower-division EE course

January 2020 - Present

Held weekly sections to help students review material about linear algebra, circuits and machine learning.