

PRIYANS NISHITHKUMAR DESAI

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EDUCATION

University of California, Berkeley

Bachelor of Arts in Computer Science - Expected Graduation (Spring 2022)

August 2018 - Present

GPA: 3.844/4.000

COURSES

Computer Programs, Data Structures, Discrete Mathematics, Probability Theory, Information Devices & Systems, Machine Structures, 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 and deviation detection to prevent adversarial attacks on ML systems. 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 across all portals by reducing resources used 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

Undergraduate Researcher — Berkeley RISE Lab

July 2020 - Present

Will be working with Grad. student Rohan Bavishi on the AutoPandas project which aims to build end-to-end AutoML systems.

PROJECTS

BearKeeper — bit.ly/bearkeeper

React.js & FireBase API

Web-app for task-scheduling for Berkeley courses. Used FireBase API to fetch saved tasks from the database.

SuitableFind — bit.ly/suitablefind

Python & Terminal Based

Created a recommendation engine for Berkeley CS upper-division courses, adjusted as per user interests. Features like PreReq satisfaction, CourseLoad indicator if certain courses can be taken in combination, CoursePlanner

Gitlet

Java

Created a version of Git version control system with all almost all features, including pull, push, fetch and merge.

Created a custom-suited Dijkstra's algorithm for implementing the merge feature

Clubs & DeCal Communication System

Ruby on Rails

Created a web-app for interaction between student orgs and students, and submit applications for organization 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 EE lab requirements remotely, by providing assistance over online mediums.

Debugging circuits using home kits and providing feedback to Head Lab Teaching Assistants

CSM Junior Mentor for lower-division EE course

January 2020 - Present

Held weekly sections to help students review new material taught in lecture