TARANG SRIVASTAVA

८ (609) 665-7567 • ■ tarang.sriv@berkeley.edu • **in** linkedin.com/in/tarangsriv • • **Q** github.com/tsgoten

EDUCATION

University of California, Berkeley • Berkeley, CA

August 2019 - May 2022

Double Major from the College of Letters and Sciences

GPA: 3.85/4.0

Bachelor of Arts in Computer Science

Bachelor of Arts in Applied Mathematics & Statistics Concentration

South Brunswick High School • South Brunswick, NJ

September 2015 – June 2019

• Outstanding Math Student • GSET nomination for Top 3 in class of 700 • Honor Roll

GPA: 4.4

Work Experience

Undergraduate Student Instructor (TA) – UC Berkeley EECS Department Berkeley, CA

June 2020 - Present

- TA for (CS70) Discrete Mathematics and Probability Theory, a 700 person class covering topics like logic, graph theory, RSA, computability, discrete and continuous probability, Markov chains and more.
- · Responsible for heading discussion sections, creating course material and administrating course grading.

Software Engineering Intern – Vydia

June 2018 – August 2018

Holmdel, NJ

- Worked on developing and maintaining web and mobile applications for artists and producers.
- Used JS, react and react-native for feature development in Agile workflow. Revamped DevOps with Docker.

Projects

Math Animations - YouTube

May 2020 - Present

- Using 3B1B's Manim tool to create math animations to describe and visualize intricate math topics.
- Videos include topics about polar decomposition and paradoxical probability topics.

Recap - Stanford Hackathon

February 2020

- Created a web application with React, to show local sourced news to a wider audience.
- With a primary focus on creating an interface that incites discovery.

Docker Migration – Vydia Internship

July 2018 - August 2018

- \bullet Upgraded the entire teams development environment to use containerization tech.
- Saves around four hours in onboarding process, and around half hour per developer in daily usage.

LED Authenticator - NJ Hackathon

May 2018

- Hardware device powered by Arduino and Android app to verify logins using AES.
- Provides a two-step authenticator in a fun way, to encoursage usage.

Gofer – Alpha Product

March 2018 - August 2018

- Android app for creating a network for local commerce by requesting and completing tasks.
- · Needed a way to get stuff from around our town so we created this app to request help from seniors.

Mousetrap/Electric Vehicle - Science Olympiad

January 2016 - March 2019

- Created the most efficient vehicle with stored potential energy in mousetrap. Placed 3rd in NJ.
- Used Arduino to control vehicle to accurately drive a programmed distance. Placed 4th in NJ.

TECHNICAL SKILLS

- Programming languages: Python, Java, JavaScript, Swift, Kotlin, Matlab, LaTeX, HTML/CSS
- Software: Docker, Android Studio, XCode, Git, Unity, Linux, SQL, Tensorflow
- Non-Technical: Agile workflow, experience teaching students, organizing events of 50+ people.

HIGHLIGHTED COURSEWORK

- Computer Science: Data Structures and Algorithms, Computer Programs, Android and iOS Development, Linux SysAdmin, Web Design, Designing Information Devices and Systems
- Mathematics: Real Analysis, Abstract Linear Algebra, Discrete Math, Probability Theory, Multivariable Calculus, Differential Equations, Numerical Analysis

Extra Curricular Activities

- Volunteer to tutor group of 4-5 students learning discrete math and probability theory, CS 70 at Berkeley.
- · Social Chair in the Math Undergrad Student Association, hosting events to encourage math community.
- First bass in orchestra, wrestling tournament champion, and SciOly state medalist.