Tarang Srivastava

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Education

University of California, Berkeley • Berkeley, CA   August 2019 – May 2022
Double Major from the College of Letters and Sciences   GPA: 3.94/4.0
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: 4.4/4.0

Work Experience

Research Assistant Research in AI for Sustainable Energy (RAISE Lab)   September 2020 – Present
Berkeley, CA
- Augmenting Reinforcement Learning with a Planning Model for Optimizing Energy Demand Response
- Responsible for the implementation of hierarchical RL agents and general operation of the project.

Head Undergraduate Student Instructor (TA) – UC Berkeley EECS Department   June 2020 – Present
Berkeley, CA
- Head Teaching Assistant for CS70: Discrete Mathematics and Probability Theory.
- 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

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
- 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.