Rishi Parikh

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Education

University of California Berkeley Computer Science | GPA: 4.0 | Expected May 2023

- **Selected Coursework:** AI, Algorithms, Security, Data Science, Computer Architecture, Data Structures, Linear Algebra, Probability, Computer Vision, Machine Learning, Compilers
- Social Chair of UPE (Computer Science Honor Society)

Evergreen Valley College 2017 - 2019

- Multivariable Calculus, Differential Equations, Statistics

Evergreen Valley High School Valedictorian

Experience

8th Wall Software Engineering Intern Summer 2020 / 2021

- **Summer 2021:** Created an image target metric to test how well an image can be recognized and tracked in a scene. Generated a program to compute a score and visualize image target properties.
- Designed an automated workflow using scalable cloud computing.
- Technologies: C++, 8th wall AR engine, Docker, Amazon ECS, Bazel, OpenGL
- **Summer 2020:** Built tools to streamline client's workflow and improve the functionality of the 8th wall cloud editor.
- Technologies: JavaScript, Nodejs, webpack, react, and web workers.

Berkeley EECS Course Staff Spring 2021

- Teaching assistant for electrical engineering and linear algebra. Taught discussion sections that supplement lecture and guide students through problems.
- Increased student involvement and facilitated group discussions in an online environment.

Research and Projects

Berkeley AI (BAIR) Artificial Intelligence Researcher October 2020 - Current

- Researcher under Prof. Ken Goldberg at Autolab with a focus on AI and robotics
- Studied computer vision and semantic segmentation of plant types using neural nets.
    - Used data augmentation and synthesis to improve mean IoU to 0.8.
    - Translating learned policies from simulator to a real-world autonomous garden.
    - Publications: **ICRA 2021:** Learning Seed Placements and Automation Policies for Polyculture Farming with Companion Plants (Co-author); **TASE 2022:** Submission for review
- Technologies: NumPy, TensorFlow, Keras, CV2, python

Robotics Captain of FRC Team 2854, President of EVHS Robotics 2015 - 2019

- Built and programmed a robot using sensors and cameras to autonomously navigate across a field and aid in teleoperated functionality; reached FIRST Robotics World Championships in 2018.
- Won NASA's Engineering Inspiration Award for spreading engineering principles in our community.

Skills

Languages: Python, Java, C, C++, SQL, JS + html/CSS
Technologies: AWS, Docker, NumPy, OpenCV, Arduino, Git, NodeJS, Pandas, Bazel, Photoshop
Interests: ML, Robotics, Computer Vision, Photography, Biking, Soccer, Hiking