Rishi Parikh

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Education

University of California Berkeley   Computer Science | GPA: 4.0 | Expected Graduation May 2023
- **Selected Coursework:** AI, Algorithms, Security, Data Science, Computer Architecture, Data Structures, Linear Algebra, Computer Vision*, Robotics*, OS*
- Co-chair of UPE (Computer Science Honor Society)

Evergreen Valley College   2017 - 2019
- Multivariable Calculus, Differential Equations, Statistics

Evergreen Valley High School   Valedictorian | Class of 2019

Research and Projects

Berkeley AI (BAIR) Machine Learning Researcher   October 2020 - Current
- Researching under Prof. Ken Goldberg at Autolab with a focus on artificial intelligence and robotics. Studying the application of Artificial Intelligence in polyculture agriculture.
  - Co-Author: ICRA 2021: Learning Seed Placements and Automation Policies for Polyculture Farming with Companion Plants
- Developed a pipeline using deep neural networks to recognize plant types and study plant growth from an overhead camera image. Used augmented data and post-processing scripts to generalize predictions across different life stages to reach a mean IoU of 0.8.
- Studying dynamic seed planting to improve coverage and diversity and react to real time changes in plant health and growth.

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 our work in spreading robotics and engineering principles in our community.

Experience

8th Wall Software Engineering Intern   Summer 2020
- Developed and deployed tools to improve client usability and functionality of our cloud editor.
- Used web workers to add automatic lint and formatting to our cloud service.
- Streamlined users' workflow through integration of features such as support for markdown preview, toggling through frequently used tabs, and displaying working changes.

Berkeley EECS Course Staff   Spring 2021
- Course tutor 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.

Skills

Languages: Python, Java, JavaScript, C, Assembly (RISC V), CSS, HTML, Go
Technologies: NumPy, OpenCV, Arduino, Git, React, Redux, NodeJS, Docker, Pandas, SKLearn
Leadership: Eagle Scout and Junior Assistant Scout Master, President of EVHS Robotics
Interests: Robotics, AR, Photography, Mountain Biking, Soccer, Hiking

* current coursework