

Pradyun Narkadamilli

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[Personal Website](#)

Education

Dougherty Valley High School | 2017-2021

- Relevant Coursework: APCS, Introduction to Computer Science
- Active in Hack Club, XREdu Club, and Linux Club
- Taught python to middle schoolers at Dougherty Station Library

Programming Skills

- Languages: Python, Java, JavaScript, Rust, C++, SQL
- Utilities: Firestore, React, writing APIs, Mobile Development, Linux System Administration

Honors and Awards

- **Winner, Samsung Solve for Tomorrow** | 2020 – Devised an information net that took temperature, smoke, and humidity data from arduino 'nodes', then used ML to detect/predict the path of a fire. That earned my school \$100,000 in prizing.
- **1st Place HackMerced AGFoodTech** | 2019 – Created an input method that captured hand movements in 3D space. Used an IMU, and parsed data into Unity with a Kalman Filter.
- **World Championship Qualifier, VEX AI Competition** | 2020 – One of 50 teams selected for inaugural VEX AI world championship.
- **National Quarterfinalist, VEX Robotics CREATE US Open (Ohio)** | 2019 – Reached the Round of 16 at VEX national championships. Reached the highest echelons of 11,000 US-based VEX Teams.
- **Other Notable Wins @** LaunchHacks, CodeDay Bay Area, SMHacks, BridgeHacks, etc.

Experience

Kami | *Personal Project*

- Uses the PyTesseract OCR engine to read text from images, and then uses an API with NLP model to summarize text
- Used Angular.js to make a web application, and Flutter to make a cross-compiling native application
- Set up/administrated a server on AWS with Nginx, Unicorn, etc.

Vital | *Personal Project*

- Uses soil moisture, temperature, and humidity data to inform gardeners of plant health
- Collected data using an Arduino, and used a Raspberry Pi to manage that data on Firestore
- Interfaced this data with a website, Android App, iOS app, and Google Assistant Routine

Captain | *VEX Team 3304R | Dublin, CA | March 2019 – Present*

- Designed the robot based on the constraints of the game. Was primary builder as well.
- Lead the programming team, and programmed robot's movement with PID and Odometry techniques
- National and State State Championship Qualifiers as a first year team of 5 people

Head of Technology | *DVHacks, San Ramon, CA | Jul 2019 – February 2021*

- Developed website and other backend software used at events
- Wrote workshop curriculum for the event
- Mentored 200+ attendees at the events
- Created policies and systems like the prize pool and mandatory GitHub commits to improve hacker experience

Head Organizer | *ProHacks, San Ramon, CA | May 2019 – May 2020*

- Managed public relations and advertising prior to the event
- Developed the software involved with the event (website, check in system, etc.)
- Moved event online due to the COVID-19 Pandemic