

## **Pradyun Narkadamilli**

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### **Education**

**Dougherty Valley High School (4.3 GPA) | 2017-2021**

- Relevant Coursework: APCS, Introduction to Computer Science, Calculus BC
- Active in Hack Club, XREdu Club, and Linux Club
- I teach python at Dougherty Station Library to middle schoolers for free.
  - Later helped the library establish a volunteer teaching program for general courses

### **Experience**

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

- Developed website and other backend software used at events
- Wrote workshop curriculum for the event
- Mentored 200+ attendees at the events

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

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

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

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

**Head of Technology | LaunchHacks II, Cupertino, CA | Apr 2019 – Apr 2020**

- Developed the website for the event
- Mentored the 100+ attendees

**Ultrabot (Personal Project)**

- Discord Bot framework including reddit scraping, weather API interfacing, moderation, music, etc.
- Uses NLP for a beta-phase conversation mode. The model analyzes user response, and formulates 'speech' accordingly

**Vital (Personal Project)**

- Uses temperature and humidity data from a raspberry to inform gardeners of their plant conditions
- Interfaced this data with a website, Android App, iOS app, and Google Assistant Routine

### **Programming Skills**

- Languages: Python, Java, JavaScript, Rust, C++
- Expertise: SQL, Firestore, Tensorflow, React, writing APIs, Linux System Administration

### **Honors and Awards**

- **National Finalist, 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. Getting to that point garnered my school \$50,000 in prize, which went into the tech department.
- **National Quarterfinalist, VEX Robotics CREATE US Open | 2019** – Made it to the top 16 teams at VEX national championships. Note that there are over 11,000 teams competing in VEX currently.  
**1<sup>st</sup> Place HackMerced AGFoodTech | 2019** – Created input method that captured hand movements in a 3D space.