

MANNAN SHUKLA

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I'm a highly driven aspiring technology professional and enterpreneur with various passion projects. I'm always excited to enhance and further my knowledge through practical experience. I am a capable leader with years of public speaking experience. My leadership style focuses on fostering open communication between team members and utilizing everyone's unique skillset.

EXPERIENCE

President and Founder/RHS Hackathon Club

2019 - Present

Organization at Robbinsville High School that competes in Hackathons, competitions where participants are tasked with creating a software solution to a given problem within an allotted timeframe. Participants are then judged and awarded prizes for their creations. Currently creating a hyperlocal weather forecasting platform utilizing sensor data from embedded weather stations.

As President I:

- Created the initial proposal for the club with a sound value proposition which was presented to the board
- Manage club finances
- Created the club [website](#)
- Chose leadership positions
- Run meetings
- Running a Hackathon at Robbinsville High School scheduled to take place March 2022

Participant/Model United Nations

2019 - Present

Students are assigned a nation and are made to debate on a predetermined issue with other students. Participants are judged and awarded based on their performance.

- Earned Best Delegate for Fall Mock 2019
- Earned Invitation to SouthMUNC for Spring Mock 2020

Participant/Toastmasters

2016 - 2019

Toastmasters is a worldwide nonprofit organization which teaches people of various ages about public speaking.

- Improvisation speech award
- Was in the Advanced group from 2017-2019
- Attended multiple adult competitions for observation

Software Team, Strategy Lead/FIRST Robotics

2016 - Present

FIRST (For Inspiration and Recognition of Science and Technology) is a worldwide robotics community which provides challenges to be completed by robots. I always worked with programming at each level of FIRST. I held leadership positions across my 3 teams going from middle school to high school.

Work:

- Used Lego Robotics Block Coding
- Used Java's object oriented concepts
- Worked with a given TensorFlow library for object recognition
- Worked with PID feedback loops
- Worked with motion profiling
- Gave updates to sponsors
- Made pitches to potential sponsors
- Gave advice to new teams during competitions
- Wrote blogposts for the team website
- Lead initial strategy meetings for 2021

Awards:

- FLL States from 2016-2018
- FTC Programming Award in 2019

Volunteer/Robbinsville Hydroponics + Farmer's Market

2021 - Present

Robbinsville Township operates an enclosed hydroponic farm which grows lettuce in a sustainable manner. All of the produce is donated to the local food bank

- Harvested lettuce
- Bagged and Boxed the lettuce for shipment
- Seeded to grow more lettuce
- Volunteered at the township stand at the Farmer's Market to promote local businesses and give people info about township initiatives

Volunteer/ProjectOxy

2021 - Present

A worldwide effort to provide an open source oxygen concentrator, provide resources to individuals, manufacturers, scientists and vendors about oxygen supply and help vendors, manufacturers and clients connect with each other to save lives. The initiative came as a result of the oxygen shortage in India during COVID spikes.

- Conducted an Interview with a prominent engineer in India
- Conducted research on oxygen storage and concentration and shared it as part of the Engineering team
- Worked with SBCs to automate and design prototypes

PROJECTS

neossg

2020 - 2021

A simple and configurable static site generator created with Python

- Initially created a version written in Shell for HackPHS 2020
- Currently implemented for use on my development blog

quickplay

2020

A small program using mpv and youtube-dl to make internet video playback easier from the UNIX commandline

bib

2021

Simple web api for Instagram created with Python and the flask webserver

metachan

2018 - Present

An elegant imageboard made for the modern web, written in Flask

rvilleforecast

2021 - Present

RHS Hackathon Club project. Various embedded weather stations will be placed around Robbinsville and send their sensor data to a centralized server which will perform calculations and send it to desktop and mobile clients. An API will also be provided.

EDUCATION

Robbinsville High School

2018 - Present

- GPA 4.36
- Honor Roll All Years
- Took all Honors Classes or Higher
- Took 7 AP classes including Physics, Calculus, and Computer Science
- Took All Available Engineering and Media Classes

Google TensorFlow Developer Certification

Present

I'm currently pursuing the TensorFlow Developer Certification which is used to demonstrate proficiency in using TensorFlow to solve Deep Learning and Machine Learning problems.

SKILLS

- Languages: Java, Python, Shell
- Operating Systems: GNU/Linux, OpenBSD, macOS
- Web Development: HTML, CSS, Markdown, Flask
- Project Management: Agile, Jira
- Misc: vim, Final Cut Pro

PERSONAL

- Politics
 - Spoke to various politicians in the Robbinsville and Mercer County area. Regular attendant at Robbinsville Board of Education and Town Council meetings. Plan to continue and work with local campaigns in the future.
- Photography
 - I'm on the quest to shoot the best pictures with the worst gear. My photographs can be found [here](#)
- Niche Operating Systems
 - Since I started using Linux in High School, I've been interested in fringe operating systems from the past and the present that dared to change the way we use computers.
- Volleyball
 - I've been playing with friends since Spring 2021. I intend to play recreationally in college.
- Literature
 - I love reading to expose myself to new ways of thinking and explore and redefine my own thoughts as well. My favorite author is Haruki Murakami.
- Japanese
 - I've been learning Japanese as I intend to travel there and possibly take a study abroad program there. I've been using textbooks, online guides, native language media and talk to native speakers to learn.