

# MANNAN SHUKLA

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I'm an aspiring technology professional with various passion projects. I'm always excited to enhance and further my knowledge through practical experience. I'm also looking toward the future by pursuing the Google TensorFlow Developer Certification which shows proficiency with Machine Learning concepts and development. I am a capable leader with years of public speaking experience. I connect with team members and encourage everyone to speak out and incorporate their ideas.

## EXPERIENCE

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### **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.

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

### **Participant/Model United Nations**

**2019 - 2020**

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 - 2018**

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

- Won 2nd for an improvisation speech
- Was in the Advanced group from 2017-2018
- Attended multiple adult competitions for observation

### **Programmer/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

Awards:

- FLL States from 2016-2018
- FTC Programming Award in 2019
- FRC Worlds in 2020

### **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
- Working with SBCs to automate and design prototypes

## **PROJECTS**

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### **neoss**

**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

## **EDUCATION**

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### **Robbinsville High School**

**2018 - Present**

- GPA 4.35
- Honor Roll All Years
- Took all Honors Classes or Higher
- Took AP Physics, AP Calculus, and AP 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. I am expected to finish this summer.

## **SKILLS**

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

## **PERSONAL**

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- Embedded Technology and Alternative ISAs
  - I've always been interested in the Electrical Engineering aspect of computers, I'm learning about RISC-V and working with SBCs
- 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. For Example, BeOS (Haiku) and the various Unixes.
- Volleyball
  - I've been playing as a setter/libero since Spring 2021, I intend to join a rec association in College.
- Mountain Biking
  - I go to my local trails every so often, intend to tackle larger ones soon, GoPro footage can be found on my website soon.
- 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.