

# Apurv Shah

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Born 26 April 2000

## Education

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*January 2010 – March 2018*

### New Millennium School- DPS

Manama, Bahrain.

- Grade 10 - 10/10 CGPA ( Highest grade in all subjects)
- Grade 11 - 90%
- Grade 12 - 95.6%

*Fall 2018 - Present*

### University of Massachusetts

Amherst, MA, USA.

## Internships

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*June 2017 - August 2017*

### The Hive Co.

Manama, Bahrain.

- Selected for internship at The Hive Co. in Bahrain. It is a Robotics based company that established Bahrain's first Maker space.
- Learned how to deal with Arduinos and Raspberry Pis and how to integrate various parts into a single robot.
- Reviewed some basic concepts of robotics and learnt how to work with sensors and integrated circuits. Also learnt skills such as 3D designing, lasercutting and Soldering.
- Helped the company with work on a project of making an AC duct inspecting robots part of my final project analysis.

## Ongoing Projects

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*August 2018 - Ongoing*

### Decentralized Internet - Internet 2.0

- We are creating a decentralized internet by using the current Wifi and dividing up the current gigantic server into multiple small boxes that will be present in the user's house and will be the node through which the user will set up a connection to the Internet 2.0.
- The project is in the Prototype phase and we plan to create a mesh network. We have set up our own little server of 4 boxes and we are running tests on it to see how well the node system in mesh topology works. The boxes we made include an internal CPU on a microchip, 1 TB hard drive, and antennas to connect to Wifi and Raspberry Pis that will be running the OS and the code and will help in communications. We are currently working on optimizing the wifi signal band selection process to reduce run time of the code and more efficiency and better connection.
- The aim of this project is to increase the privacy of the user and prevent the misuse of data as every user will be in control of some part of the server and they can protect their own information.

*October 2018 - Ongoing*

### Interactive Garden Guide

- Project Idea came while our team was brainstorming for one of the Hackathons. Seeing the current trend of people starting a backyard garden and the fact that they fail at it inspired us to come up with this idea.
- We plan to an app that uses location API ( by Google), agriculture API ( By Government of USA) and weather API ( Open Weather) to spit out an interactive GUI for the user telling them what plants they should grow in their backyard. This guide suggests crops, location and relative positioning for optimal sunlight, amount of water required and hence is a comprehensive guide for the users to successfully maintain their backyard garden.

## Hackathon Experience

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Oct 12- 14 2018

### HackUMass 2018

- First Hackathon ever.
- Project Idea - To make an app that uses the weather API, Location API and the Agricultural API by the USA government to suggest a layout for a backyard garden based on the user's location and tips given including most suited crops, amount of water, layout to ensure maximum sunlight exposure and finally the app spits out a GUI widget to show an interactive layout. Unable to complete it withing Time.
- Skills learnt - Working with APIs, GUI development and App development.

Oct 12- 14 2018

### HackHarvard 2018

- Second Hackathon in first semester in Freshman year,
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## Prgramming Experience

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C++

- 3 years of experience
- Taught in High school as part of curriculum.

Python

- 1 year of experience
- Self-Taught through online tutorials and online tasks on Leetcode.

Java

- 1 year of experience
- Taught in University as part of curriculum and through online tutorials.

R

- Very basic knowledge of syntax and working.
- Through books and YouTube videos.

Swift

- Very basic experience with iOs app development
- Learnt during competitions and Hackathons.

SQL

- 1 year of experience
- Taught in High school as part of curriculum.
- Gave a basic sense of database management and intuition of pattern recognition.

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- 1 year of experience
- Taught through online video tutorials.

## Voluntary Services

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Summer of 2016

### Service at Animal Shelter

- Completed 200 hours of social service at an Animal Shelter Panjrapole in Godhra, Gujarat, India.
- Raised awareness about the illegal butcher houses and about the value of animals in our Eco-system.
- Raised donations to afford the necessary food and water to sustain the animals in the non-patient organization.

Winter of 2017

### Service at Orphanage

- Completed 100 hours of service Orphanage in Baroda, Gujarat, India.
- Raised Donations for the the betterment of lifestyle of the orphans.
- Taught them the basics of using a computer and the basics of Maths and English.

## Non- Academic Achievements

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March 2017-present

### Editor at Young Scientists Journal

- Selected as an Editor at Young Scientists' Journal (<https://ysjournal.com>) from a large pool of applicant.
- Edited over 15 Science based lengthy Articles and Research Paper in Google Docs and Latex and OverLeaf editing mechanisms. Held the Position for 1 year and got selected to do it this year for second time

*Summer of 2018*

### **Prospect for Bahrain Cricket National Team**

- Elected as top 18 prospect for Asian Cricket Council – Under 19 international cricket cup in Malaysia to represent Bahrain
- Unable to attend due to unnatural bone density test results.
- All prospects unable to attend were recognized by government of Bahrain.

*2016-2018*

### **Model UN participation**

- Participated in 13 Model UNs over the last 3 years of High School
- Won 5 awards in various conferences and councils.
- Got selected to the UMass Model UN team.