**Sushant Raj**

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**Education:**

University of Connecticut, Honors College, STEM Scholar *Expected Graduation Date: May 2022*

Bachelor of Science, *Electrical Engineering & Computer Engineering*

Minor: *Mathematics*

**Work Experience:**

**University Information Technology Services (UITS)**  *January 2019 - Present*

*Technician*

Responsibilities include on site troubleshooting various University owned devices, installation of new devices, and configuring new devices to the UConn network.

**Waypoint Robotics Internship** *Summer 2018, Summer 2019*

*Robotics Developer Intern*

Last summer, my responsibilities included the development of new robot functions. My three projects included creating scheduling capabilities for the robot, developing a torque-based safety feature, and laying the foundation for GPS integration in the robots. I primarily utilized ROS and Python for these projects.

In summer 2018, my responsibilities included the development of robot functions and web interface. I made various additions to Waypoint’s web interface’s block code section, where clients can create custom programs using Waypoint’s block coding language. My main project was creating a raster function.

**Internship at MicroBilt** *September 2016 - October 2017*

*Application Developer*

Responsibilities included coding in Java for various projects. My main project was creating a Java application to detect errors in data and formatting of documents sent to MicroBilt by clients.

**Extra-Curricular Activities:**

**University of Connecticut Indian Student Association**

*Freshman/Pan Asian Council Representative (September 2018- May 2019)*

* Responsible for assisting in organizing events and supporting the media chair in publicizing events and in running audio video components of events.
* Also responsible for representing the organization in UConn’s Pan Asian Council.

*Media Chair (May 2019-Present)*

* Responsible for assisting in organizing events, creating flyers and running audio video components of events
* Also responsible for managing the organizations branding

**MetroHacks**

*Board Member January 2019 – Present*

This past year I worked to support the planning and execution of MetroHacks Women II and MetroHacks IV. I worked to scale MetroHacks to four new locations including New York City, Atlanta, Washington DC, and Hartford. This expansion allowed Metrohacks to impact over 1,000 additional students. My responsibilities included remotely managing and advising local teams on financial, marketing, and branding/design initiatives for each event.

*Director of Design & Sponsorship Fall 2017 – August 2018*

MetroHacks hosts the largest annual high school hackathon in New England. I was responsible for pursuing sponsorships from companies to support the organization and its events. I also created branding materials for the organization and its events, such as T-shirt designs, graphics for social media, logos, etc.

**Sanskrit Instructor at Chinmaya Mission** *September 2016 – May 2018*

*Instructor*

Volunteered at the Chinmaya Mission Metro West Chapter in Westborough, MA teaching Sanskrit students of various ages with a curriculum I developed.

**AMSA High School Botball Robotics Club** *Fall 2016- May 2018*

*Team Lead*

* Organized meetings, raising funds, maintaining budget, and leading building and coding efforts
* Organized a Middle School Robotics club, where students are taught the basics of robotics and are given the opportunity to compete with each other to build robots to complete a series of challenges

Captain of AMSA High School Fencing Team(2015-2018)

Carnatic(Indian Classical) Vocal Music(2008-Present)

**Achievements:**

* Completed Samskritabharati’s Sanskrit as a Foreign Language program and recognized by University of Pennsylvania’s South Asian Center for Sanskrit Studies.
* Second Place in New England Malayalee Association(NEMA) Classical Vocal Music competition.
* National AP Scholar with Distinction

**Skills:**

**Technical:** Proficient in Python, Java, ROS, Photoshop

**Languages:** Fluent in English, Tamil and Sanskrit