DEVESH SARDA

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EDUCATION

University of Washington, Seattle **Starting September 2020**
Incoming Computer Science Student (Direct Admit)

Tesla STEM High School, Redmond **(September 2016 – June 2020)**

EXPERIENCE

AI RESEARCHER | MAKEABILITY LAB, UNIVERSITY OF WASHINGTON (July 2019 – September 2019)

- Conducted studies on improving precision, recall and cost savings by training various deep learning model to detect accessibility issues in cities
- Optimized library to get predictions from the neural network using memorization and multi-processing techniques to increase the processing speed

LEAD PROGRAMMER | RIPTIDE ROBOTICS (September 2018 – Present)

- Designed a custom user interface system to easily operate the robot at depths up to 16 ft underwater
- Utilized Gaussian elimination along with OPENCV to create an autonomous driver system with five degrees of freedom
- Engineered machine learning models to detect benthic species and track the health of coral colonies using TensorFlow

MOBILE INTERN | CONCUR TECHNOLOGIES, BELLEVUE (November 2017 – February 2018)

- Learned mobile application development using Android SDK and tooling through developing Android applications from scratch
- Developed a location – based TODO list application with Google Maps integration which won Best App award at company hackathon

LEAD PROGRAMMER | EXOTHERMIC ROBOTICS (September 2016 – September 2018)

- Developed libraries using ROBOTC to operate the robot through using user input along with a closed loop correction system
- Utilized multiple sensors including ultrasonic scanning along with multithreading to run the robot autonomously

PRESIDENT | CATALYST COMPUTER SCIENCE PROGRAM (September 2018 – Present)

- Teach approximately 60 middle school students in 4 classes: Python, Java, HTML, and Arduino
- Manage content and logistics for all the weekly classes while mentoring fellow tutors
- Created and maintain the organization's website and social media account

AWARDS AND HONORS

- 12th place at the MATE Remotely Operated Vehicle (ROV) International Competition 2019
- 7th place in Engineering Design at Technology Student Association (TSA) Nationals 2019
- Finalist in Software Development at TSA Nationals 2019
- Top 5% and Honor Roll in the American Mathematical Competition 2019
- 2nd place at the MATE ROV PNW Competition 2019
- 1st place in Engineering Design, Software Development, Coding at TSA State 2019
- 10th in American Regional Mathematics League 2018
- Selected to attend prestigious SIMUW 2018 math camp after intensive entrance examination
- 2nd place at VEX State Competition 2017 and Tournament Champions at Sunnyside VEX Competition 2017
- National AP Scholar with Distinction and National Merit Finalist 2020

PROGRAMMING SKILLS: Java, Python, Arduino, ROBOT C, OPEN CV, Android Studio