

# Rohit Nagvenkar

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## SUMMARY

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Figuring out how stuff works, Playing Soccer, Meeting new people, Politics, Hackerrank, Dota 2, StarTrekasd  
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## EDUCATION

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- **University of Texas at Arlington** Arlington, TX  
*Unmanned Vehicle Systems (CSE concentration)* Aug. 2018 – Current
- **University of Texas at Arlington** Arlington, TX  
*Master of Science in Computer Science and Engineering* Aug. 2017 – Current
- **Thakur College of Science and Commerce** Mumbai, India  
*Master's of Science in Computer Science* Jun. 2014 – July. 2016

## PROGRAMMING SKILLS

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- Python, C, C++, Java, JavaScript, NodeJS, ReactJS, REST, Matlab, Linux

## PROJECTS

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- **Computer Vision:**  
Teaching deep Convolutions Neural Networks to play a racing game: Goal was to make the host car run an entire lap using just the visual information captured from a camera, then trained and tested the neural network etc.
- **Reinforcement Learning:**  
Trigger Strategies for Repeated Cooperative games: Implemented a multi agent system that allowed efficient transmission of data (Nash Equilibrium) with the intent of being able to run forever.
- **Robotics:**  
Built a holonomic 4 wheeled bot using lego ev3 brick as the processor. Used sensors such as SONAR, LIGHT and INFRARED to avoid obstacles and navigate through various terrains.
- **Autonomous Systems:**  
Worked with different sensors and control systems such as Pixhawk, LiDAR, GPS/Compass modules, radar, camera module, encoders, PID etc. Worked on path planning algorithms that utilized the sensors and control aspects of the system.
- **Currently working on:**  
A Centipede bot similar to the "Vietnamese Centipede", figuring out the control dynamics and kinematics (Kinodynamic motion planning) of the bot and be able to learn to traverse into any surroundings using machine learning concepts.

## EXPERIENCE

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- **University of Texas at Arlington** Arlington, TX  
*Student Assistant* Jun 2019 - Current
  - **Communication:** Promote campus events through innovative PR techniques, Advice students about their academic and financial profile.
- **Compass Group** Arlington, TX  
*Student Operations Supervisor* Oct 2017 - May 2019
  - **Decision Making:** Efficiently managed a team of more than 15 associates in daily operations while providing courteous customer service.
  - **Leadership:** Executed supervisory objectives by devising staff, work schedules, planning, monitoring and enforcing compliance with health and safety regulations, and exhibited exemplary skills in conflict resolution.

## INTERESTS

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- Figuring out how stuff works, Playing Soccer, Meeting new people, Politics, Hackerrank, Dota 2, StarTrek  
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