

# Rishi Desai

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## EDUCATION

**UNIVERSITY OF ILLINOIS  
AT URBANA CHAMPAIGN**  
BS IN COMPUTER SCIENCE  
Expected May 2020

## LINKS

Github:// [apache8080](#)  
LinkedIn:// [rishidesai1](#)  
YouTube:// [Rishi Desai](#)

## COURSEWORK

### UNDERGRADUATE

Intro to Computer Science  
Data Structures (Spring 2018)  
Software Design Studio (Spring 2018)

## SKILLS

### PROGRAMMING

Java • Python • JavaScript  
ROS (Robot Operating System) • C++  
C • CSS • PHP • MySQL  
OpenCV • Flask • NodeJS  
AngularJS • ExpressJS • Numpy

## EXPERIENCE

### BLUEBERRYHOME SOFTWARE ENGINEER

May 2016 - Present | San Jose, CA

- Designed and built a new site feature to improve daily active use, a tool to reply to text messages with a web chat app, and a framework to run nightly cronjobs on our database.
- Technologies: NodeJS, AngularJS 1.x, ExpressJS, MongoDB, AWS ElasticBeanstalk, Twilio

### NVIDIA ROBOTICS INTERN

May 2016 - September 2016 | San Jose, CA

- Built a skid-steer robot with two NVIDIA engineers.
- Made ROS packages in Python to use a PS3 controller for robot control and use an Asus Xtion Pro Live RGB-D camera for object and collision detection.

## PROJECTS

### GPU CLUSTER

October 2017 - Present | [github.com/acm\\_uiuc/gpu-cluster-backend](#)

- Built the docker container management system for the GPU cluster that allows users to have GPU access from a jupyter notebook running in a docker container. This project uses the docker-py python SDK to create and run docker containers.

### TICTACTOE BOT

September 2017 | [github.com/apache8080/tictactoe\\_bot](#)

- Fun side project to practice C programming. Built a text based TicTacToe game where a player can play against an AI. The AI uses a minimax algorithm to build a tree of best possible moves and eventually make a move.

### T-SHIRT SHOOTER ROBOT

June 2014 - Aug 2016 | [github.com/apache8080/NVIDIABot](#)

- Converted a FIRST FRC robot into a robot fully run by the NVIDIA Jetson TK1 with ROS and Python. Project was sponsored by NVIDIA.

### OPENCV COLOR TRACKER

Jan 2014 - March 2014 | [github.com/apache8080/ColorTrackingOpenCV](#)

- Used OpenCV to contour a green shape and have a cursor follow the center of that shape. Won 2nd Place in CS/Math category at the Synopsis Science Fair.

## STUDENT ORGANIZATION

### ACM UIUC | MEMBER

Jan 2014 - Present | Champaign, IL

Active contributor to many of the projects at ACM.

### ROBOTICS TEAM 3256/5677 | PRESIDENT OF SOFTWARE, STRATEGY, AND SCOUTING

September 2013 - August 2017 | San Jose, CA

Lead the design and programming of all key subsystems on the robot. eg. Motion Control, PID, Vision Lead strategic planning for the team and the development of data analytics tools to assist the team in analysis of robot performance on the field.