Rishi Desai

desai.rishi1@gmail.com | 408-896-8955

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN
BS in Computer Science
Expected May 2020
Cum. GPA: 4.0 / 4.0
Major GPA: 4.0 / 4.0

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

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. 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.

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.