Rishi Desai

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN
BS in Computer Science
Expected May 2021

LINKS

Github:// **apache8080**
LinkedIn:// **rishidesai1**
YouTube:// **Rishi Desai**

COURSEWORK

UNDERGRADUATE
Intro to Computer Science
Discrete Structures
Data Structures
Software Design Studio

SKILLS

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

OPEN SOURCE

CONTRIBUTIONS
• gonum - numerical libraries for golang
• nvdocker - python library to create docker containers with gpu access
• seedling - CLI tool for arbor microservices framework

EXPERIENCE

CISCO Software Engineering Intern
May 2018 - Present | San Jose, CA
- Designed and built a micro-service to automate provisioning of virtual networks, subnets, and virtual machines on to Microsoft Azure via the DNA Center web application. This application allows infrastructure engineers to connect their data centers and other enterprise networks to apps running in private clouds.
- Technologies: Java, Microsoft Azure, SpringBoot, JavaScript, Cisco IOS, Business Rules Engine, RabbitMQ

BLUEBERRYHOME Software Engineer
May 2016 - December 2017 | San Francisco, 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, Docker

NVIDIA Robotics Intern
May 2015 - September 2015 | San Jose, CA
- Built a skid-steer robot with two NVIDIA engineers.
- Made ROS (Robot Operating System) 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

PROJECT HEDWIG
June 2018 - Present | github.com/apache8080/hedwig
- This project is based off of the MIT Jetson RACECAR project. I am converting a Traxxas Rally Slash RC Car into an autonomous car driven by a Nvidia Jetson TX1 and an Ardunio UNO currently running ROS. Future plans are to experiment with ML and also look into Rust as a language for robotics.

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 nvdocker python package we created and open sourced to create, run, and manage docker containers with GPU access.

RESEARCH

INTELLIGENT ROBOTICS LAB | Lab Assistant
Jan 2018 – Present | Champaign, IL
Recently began working under Dr. Bo Liu on autonomous RC car navigation.

STUDENT ORGANIZATION

ACM UIUC | Member, Vice Chair
August 2017 – Present | Champaign, IL
Vice Chair from 2018 to 2019. Managed ACM Projects and helped organize HackIllinois and PyData Champaign-Urbana