

PARIBARTAN DHAKAL

604 N 31ST AVENUE, APT D-10, HATTIESBURG, MISSISSIPPI, 39401 | (601) 307 6986
paribartan.dhakal@usm.edu | paribartandhakal.com | <https://github.com/paribartann>

EDUCATION

The University of Southern Mississippi (USM), Hattiesburg, Mississippi

May 2020

Major: Computer Science (Honors College)

Minor: Mathematics

CGPA: 4.00

UNDERGRADUATE RESEARCH

School of Computing, USM

Advisor: Dr. Bikramjit Banerjee

December 2018 - Present

“Coordinated autonomy of unmanned aerial vehicles”

- Generating the behavior tree of two autonomous coordinated drones.
- Allowing robot to automatically learn control policies by repeated task interaction using Reinforcement Learning

School of Computing, USM

Advisor: Dr. Bikramjit Banerjee

June 2018 - Present

“Theoretical Analysis of Human-Agent Transfer for Reinforcement Learning (RL)”

- Training RL agent as a supervised classifier initially but reducing its dependencies in this classifier over time
- Experimenting whether RL will end up with better performance than the demonstrator

CODING EXPERIENCE

Nutri App

Created at Cal Hacks 5.0 at the University of California, Berkeley

November 2018

- Mobile and web application that takes in physical attributes of a user and outputs a personalized nutrition plan
- Used minimization algorithm to reduce the food waste

Personal Blog

December 2018 - Present

Personal Website using HTML, CSS, Node JS, React JS, express

TECHNICAL SKILLS

Scripting/Programming Languages: C++, JavaScript, D3, Python, HTML, CSS, Node JS, React JS, express

Database: MySQL

Operating System: Windows, Mac OS, Linux

Currently Learning: ROS, Gazebo, Firebase

RELEVANT COURSEWORK

Data Structures and Algorithms, C++

Computer Architecture

Object Oriented Programming

Database Management System

Assembly Language

Operating System

Online Courses

- Introduction to Computer Science and Programming using Python, MITx – 6.00.1x
- Programming for the Web with JavaScript, PennX- SD4x

WORK EXPERIENCE

Student Worker

January 2017 - Present

HVAC department, Physical Plant, The University of Southern Mississippi

- Regularly check and maintain the computers and software used by the department like Trane, Johnson Controls
- Assist supervisor in maintaining the invoices and files

AWARDS

Danny R. Carter Endowed Scholarship, 2017

Bruner Science and Technology Annual Scholarship, 2017

Honors College Keystone Scholar, 2018

PROFESSIONAL MEMBERSHIP

Institute of Electrical and Electronics Engineers, USM chapter

August 2017 - Present

Student Alumni Association

April 2017 - Present

VOLUNTEERING ACTIVITIES

The Big Event (10 hours)

Hattiesburg, MS

Earthquake Relief Program (30 hours)

Kathmandu, Nepal