Praakrit Pradhan

Master of Science in Computer Science

Portfolio website: praak.me

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Work Experience

COOP @ INTELLIGRATED, MASON OHIO MAY - AUG '16

- Collaborated on creation of a web app for test automation scripts saving time on all manual tests
- Integrated existing web application with QTest, which made a single management platform to overview test runs and made detecting potential defects faster
- Setup Jenkins for automation development, which automatically deployed test runs. This also helped run builds every commit for continuous integration

COOP @ GATES AIR, MASON OHIO JAN - MAY '15

- Evaluated performance of transmitters by preparing and executing test cases using Wireshark and Shunra. MAY - AUG '14
- Project N+1: Created specifications to backup transmitters for instant recovery using dynamic configuration

Projects

WREN THERMOSTAT AUG '16 - MAY '17

- Built a smart thermostat with relay controls ready for connection into home HVAC systems which used XBEE for communication, Photon as the MCU and thermistors for hardware functionality
- Created an Android application with RESTful service built using Python, Flask, and MongoDB
- Setup Red Mine to follow Agile methodology for project management throughout the year

MACHINE LEARNING AUG - DEC '16

- Wrote the Basic ID3 algorithm and The Naïve Bayes classifier algorithm and tested on the Iris data set
- Naïve Bayes classifier algorithm gave a 90% accuracy in classification

INTELLIGENT SYSTEMS JAN - MAY '16

- Perceptron vs KNN modeling: Wrote algorithms in MATLAB for classification of any given data set
- Backpropagation Algorithm: Created Neural network in MATLAB for the MNIST data set which generated an accuracy of over 90%. MNIST is a data set of images with hand written decimal numbers
- Self-Organizing Feature Map: Formulated a Python script which successfully classified animals described in a 13-attribute bit format

Achievements

EARTHQUAKE RELIEF APRIL '15

- Collected donations at the University of Washington at St. Louis for victims of the April 2015 earthquake in Nepal
- Worked with PRAN Nepal (NGO) in Nepal to deliver collected donations to the victims in need
- Setup website for donations and managed website for constant updates

INSTRUCTOR JAN - MAY '17

- Taught engineering models, a required foundational course teaching computer programming and mathematical modeling to first year undergraduate students using MATLAB

TUTOR/GRADER AUG '13 - MAY '17

- Tutored first and second year students in engineering subjects such as Calculus, Physics, and programming
- Graded labs and homework assignments of first year students in programing courses

AWARDS

- Received "Best Teaching Assistant Award" as voted by students, selected out of 70+ employed TA's
- Awarded Global Outreach Scholarship for undergraduate career
- Awarded full-tuition University Graduate Scholarship and Graduate Assistantship

Education

UNIVERSITY OF CINCINNATI, OHIO

ACCEND Program College of Engineering and Applied Sciences DEC '17

- Master of Science in Computer Science GPA: 3.92
- Bachelor of Science in Computer Engineering, Minor in Mathematics MAY '17

Skills

C++ MATLAB CSS HTML5 Arduino Assembly AWS C# .Net Java Python PHP Docker