Praakrit Pradhan

Master of Science in Computer Science

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Work Experience

Honeywell Intelligrated Ohio

Advanced Test Engineer — DEC 2021 - PRESENT

- Create automation scripts using the unit test module in python to save time on manual regression test
- Create and configure unified test environment; testing Real Time Controller (RTC) system
- Manage team for improving and executing regression testing on the unified test environment
- Create test plans for regular software sprint and quarter releases
- Create test cases, executions, epics and stories for continuous sprint planning and executing
- Evaluate and create VPT and NFRs for new products
- Conduct sprint meetings for unified test environment
- Evaluate usability and validate automation tools for teams before purchase

Software Engineer II — JUNE 2021 - DEC 2021
Software Engineer I — APRIL 2018 - JUNE 2021

- Team Lead for Amazon projects
- Managed different engineering groups of several projects including but not limited to budgeting and forecasting
- Lead Software Engineer for multiple Amazon warehouse distribution centers including 70M dollar projects
- Lead and coordinated multiple engineering and installation teams to accomplish all requirements for multiple projects
- Implemented, tested, configured and modified code on site project location as needed to meet customers' requirements
- Worked directly with customers to meet their demands on each project and meet timelines
- Managed manpower and forecasted budgets to hit project deadlines on-time and under budget
- Set up and deployed database server clusters in distribution centers
- Troubleshoot software issues in real time application and find solutions during high severity conditions
- Created specific documentation of current product and functional specification of the completed applications

Projects

Wren Smart Thermostat — AUG 2016 - MAY 2017

- Built a smart thermostat with relay controls ready for connection into home HVAC systems using XBEE for the communication protocol, Photon as the microcontroller unit and thermistors for hardware functionality
- Created an Android application with RESTful service built using Python, Flask, and MongoDB

Intelligent Systems — JAN 2016 - MAY 2016

- Back-propagation Algorithm:
  Created a neural network in MATAB to identify hand written numbers from MNIST data set with an accuracy over 90%
- Self-Organizing Feature Map (SOFM):
  Formulated a Python script to successfully classifying animals described in a 13-attribute bit format

Achievements & Awards

- Taught computer fundamental programming concepts and mathematical modeling via MATAB to first year undergraduate students (Jan - May of 2017) to explore 'The Role of Arduino for Increasing Interest in Engineering Education"
- Received department award for best accuracy in "Budget Forecast" of a 70M Amazon project
- Received multiple awards for "Going beyond" at Honeywell during work on site at multiple project locations
- Received "Best Teaching Assistant Award" as voted by students, selected out of 70+ employed TA's

Education

University of Cincinnati , Ohio

DEC 2017

ACCEND Program College of Engineering and Applied Sciences

GPA: 3.96

- Master of Science in Computer Science
- Bachelor of Science in Computer Engineering, Minor in Mathematics

Skills

C++ **Agile** **JIRA** **Blender** **3D Slicer** **MATLAB** **Python** **CSS** **HTML5** **Arduino** **Assembly** **AWS** **C#** **Docker**