**PRANEETH REDDY ARRA**

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**OBJECTIVE:** To obtain full-time entry level position as Software Engineer starting from January 2017. My interests also include Machine Learning, Data Warehousing and Web Development.

# EDUCATION

# M.S. in Computer Engineering GPA: 3.20

# Michigan Technological University Graduation: December 2016

# Relevant coursework: Advanced Algorithms, Web Application Development, iOS Development, Data Warehousing, Embedded Sensor Networks, Mobile Networks.

# B.S. in Computer Science and Engineering

# Indian Institute of Information Technology Design and Manufacturing, Jabalpur, India Graduation: May 2014

# EXPERIENCE

# Web Developer Intern at Inspire Software Solutions May 2013 – December 2013

# Worked in a team to develop a common online platform for various small scale businesses in a city.

# Primarily worked in designing the schema and developing tables for the application database.

# Created tables views, navigation bars and tab functionalities in multi-view application on Xamarin studio using C# for Android users.

# Worked on developing the web interface using ASP.NET MVC4 on Visual Studio.

# Graduate Teaching Assistant at Michigan Technological University August 2016 – December 2016

# Assisting graduate students in coursework for Advanced Algorithms during Fall-2016.

# Designing bi-weekly assignments and grading assignments and exams.

# Helping students in understanding the course topics.

# SKILL SET

Python Java Objective-C C# Scala

JavaScript HTML CSS PHP jQuery

ASP.NET MySQL NoSQL REST API Hadoop

Kivy Xamarin Visual Studio pyCharm Eclipse

**PROJECTS**

# JobTrack – An iOS application using Objective-C:

# A work scheduling application for students working at multiple on-campus jobs.

# Built multiple interfaces on Xcode using Objective-C.

# Developed the student and employee databases using SQLite.

# Human Computer Interaction using Emotiv EPOC+:

# Interacting with computer using mental thoughts and facial expressions.

# Currently analyzing the EEG signals values for event specific actions.

# Training the Emotiv using Classification technique of Supervised learning to define the range for specific action and identify it more precisely.

# Identification of Handwritten digits using Machine Learning Concepts in Python:

# Using Feed Forward Neural Network and Error back propagation to train and predict handwritten digits.

# Gradient descent back propagation was used to train and the feed-forward algorithm was used for testing.

# Attained accuracy of 99.3% while predicting the inputs.

# Comparison of various Classification and Regression Techniques using Python:

# Linear Discriminant and Quadratic Discriminant analysis was applied on a large dataset.

# Used methods like Linear Regression, Ridge Regression with gradient descent and non-linear regression.

# LEADERSHIP

# Representative of Electrical and Computer Engineering Department at Michigan Tech Graduate Student Governance.