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.