HARISH PUVVADA

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EDUCATION

New York University - Tandon School of Engineering, New York, NY   May 2018
Master of Science in Computer Engineering, GPA: 3.67

Amrita University, Bangalore, India   May 2015
Bachelor of Technology in Computer Engineering, GPA: 3.7

SKILLS

Programming Languages : Python, Java, C++, C
Web Development   : HTML5, CSS3, JavaScript, jQuery, PHP (LAMP stack), JSON, Django, Node.js
Database Platforms   : MySQL, PL/SQL, MongoDB
Data Analytics   : Hadoop, MapReduce, Pig Latin, Spark SQL, Spark MLib, Tableau
Operating Systems   : Linux (Ubuntu), Mac OS, Windows
Tools and Technologies : AWS (S3, EC2, DynamoDB, VPC), GIT, SVN, Wireshark, MATLAB, Qualtrics, Docker

CERTIFICATIONS

- AWS Associate Developer certification, Amazon   April 2018
- Node.js developer certification, Udemy   May 2018

EMPLOYMENT

NYU Computer Science and Engineering Department, Brooklyn, NY   September 2017 - Present
Graduate Teaching Assistant
- Develop virtual labs on NYU Vital, grading exams and holding office hours for graduate level Computer Networks course.

New York City Transit, New York, NY   May 2017 – August 2017
Software Engineering Intern (JavaScript, jQuery, twitter typeahead.js library, MySQL)
- Engineered a search engine to speed up employee access to the protocol manual for service strategies.
- Decreased processing time to access the data by 90% throughout the department.
- Contributed in writing test scripts for Automatic Announcement System(AAS) which reduced manual effort by 50%

NYU Technology Management and Innovation Department, Brooklyn, NY   September 2016 - April 2017
Graduate Research Assistant
- Developed a Web application using Python, D3.js, jQuery and MySQL for Human Computer Interaction research.
- Created surveys using Qualtrics and JavaScript, analyzed and visualized the survey data using Tableau.

Tata Consultancy Services Ltd, Mumbai, India   June 2015 - July 2016
Java Developer
  Project: Enterprise Resource Planning(ERP) - Finance and Accounting for more than 200 clients in India.
- Application development using Core Java, Servlets, JSP, and JavaScript.
- Responsible for requirement gathering from clients and developing design solutions.
- Performed root cause and impact analysis and ensured the production defects were resolved within specified SLAs.
- Optimized MySQL stored procedures to reduce buffer time for On Demand Reports (ODRs).

PROJECTS

Team Up (*Django, Python and JavaScript*)
- Designed a crowdsourcing platform where users can create accounts, post/comment/like projects and create/pledge projects.
- Implemented functionalities which connect users, populate news feed and propose recommendations.

Text to Speech Web Application (*Python, Amazon Core Services*)
- Developed a web app to convert text into mp3 files on AWS Lambda and AWS S3 which was streamed using Simple Queue Service.

Bitcoin Price Prediction (Big Data, *Python, Java, Pandas, SparkML, SparkSQL, Neural Networks*)
- Predicted Bitcoin prices on hourly basis by identifying correlation between market sentiment and twitter sentiment.
- Extracted tweets and bitcoin prices using Twitter REST and Coin Desk APIs.
- Used Spark SQL for data pre-processing and Spark MLib, Recurrent Neural Networks(LSTM) for time series forecasting.

Lending Club Loan Data Analysis (*Python, Pandas, Seaborn, plotly, Machine Learning*)
- Implemented Random Forest, Logistic Regression, MLP algorithms for predicting if a customer will default the loan or not with an accuracy of 84% and False Negatives of less than 1%.
- Implemented Grid Search, Bagging and Boosting techniques to increase accuracy by almost 2%.

ACHIEVEMENTS

- Google developer challenge scholarship - 2018 recipient.