SHIRAZ BHALLA

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GIThub - https://github.com/bhalla-shiraz

EDUCATION

- Masters of Science in Computer Science
  University of Texas at Dallas, TX   4.0/4.0

- Bachelor of Engineering in Computer Science
  Panjab University, Chandigarh, India   3.6/4.0

ACHIEVEMENTS

- Completed Bachelors of Engineering in Computer science with 1st Division Honors.

TECHNICAL SKILLS

- **Front End:** HTML5, CSS, Bootstrap, JavaScript, JQuery, ReactJS, Redux.
- **Back End:** Java, Express, Node JS.
- **Data Visualization:** D3 JS, DC JS, Crossfilter JS.
- **Database:** MySQL, OracleSQL, MongoDB.
- **Operating Systems:** Linux, Windows, OSX.
- **Tools:** Eclipse, Net Beans, SQL Developer, Visual Studio, Dreamweaver, vi/vim.

ACADEMIC PROJECTS

WORK EXPERIENCE

Full Stack Developer Intern – Walmart Labs
Sunnyvale, California

- Worked as a part of Checkout team of Walmart Web application.
- Extensive work on REACT JS and REDUX on the front end.
- Responsible for handling the fulfilment and shipping functionality.
- Data Visualization Dashboard for checkout conversion analysis using D3 JS, DC JS and Crossfilter.
- Created Express API to render visualization.

The Cancer Specialist

- Machine Learning based software to diagnose the type of Breast Cancer.
- The diagnose result is derived by finding pattern from prior experience dataset and creating a learning hypothesis.
- Comparison of accuracies of 10 Machine learning algorithms for best hypothesis.
- Achieved an accuracy of 82% on the test data.
- Technology used – Java, JDBC, Oracle SQL, R Programming.
- GIT Hub link - **https://github.com/bhalla-shiraz/TheCancerSpecialist**

Twitter Analyzer

- Implemented clustering of similar tweets as a machine learning problem by utilizing Jaccard Distance metric and K-means clustering algorithm
- Worked on parsing of JSON file data to create the dataset for clustering
- Achieved a squared sum error of 23.69 on the data.
- Technology used – Java, JSON parser.
- GIT Hub link - **https://github.com/bhalla-shiraz/TheTwitterAnalyzer**

University Database Management System
- In a team of 2 developed program to manage university database which managed Courses, Sections and Instructors for current and previous semester.
- My part was to handle JDBC connection, interaction and manipulation of Database.
- Technology used – Java, Oracle SQL, eclipse and SQL Developer.

Robot Controller
- Implemented a GUI based Robot controller that has a potential to be calibrated with a real Robot.
- Functionality of Arm motion, claw grabber, turning, reverse move, forward move was added.
- Functionality to control motion using keys/buttons was also implemented.
- Technology used – Java Swing, eclipse.

RELEVANT EXPERIENCE
- Worked as a feature lead to implement National Number Portability and EIR   Oct 2012 – July 2015 S13 Interface.
- Mentored 2 Fresher employees on each of the feature.
- Executed and Documented Test Plans as a QA engineer to test DHCP feature for Alcatel Switches.
- Worked in implementation of packet scheduling tool in C.