Mansi Jain

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SUMMARY

Software Engineer with expertise in handling varied responsibilities in cross-functional IT projects. Extensive knowledge of object-oriented software development, data technology, web development and machine learning with understanding of software development life cycle.

EDUCATION

Northeastern University, College of Engineering, Boston, MA **May 2017**
Master of Science in Information Systems GPA: 3.67
Relevant Courses: Application Engineering and Design, Database Design and Management, Web Tools, Algorithms

National Institute of Technology (NIT), Raipur, India **Jun 2015**
Bachelor of Technology in Information Technology GPA: 3.61
Relevant Courses: Internet & web technologies, Object Oriented Programming, Operating System, Software Engineering

TECHNICAL SKILLS

- **Programming Languages:** Java, C#, C++, C, MATLAB, Python
- **Web Technologies:** JavaScript, PHP, node.js, angular.js, J2EE, Maven, CSS3, HTML5, AJAX, Bootstrap
- **Frameworks:** Hibernate ORM, Spring MVC, Django, Struts/Struts2
- **Databases:** MySQL, SQL Server, Oracle, Microsoft Access, MongoDB
- **Operating Systems:** Windows, Linux (Ubuntu, Fedora, Red Hat Enterprise Linux), Mac OS X
- **Software Applications:** Weka, Eclipse, Git, Netbeans, Atom, Tomcat, SublimeText, Xampp, VMWare
- **Networking:** Linux-Unix Concepts, TCP/IP, Ethical Hacking, DNS, DHCP

WORK EXPERIENCE

Northeastern Univeristy **Jan 2016 - Present**
Research Assistant

- Closely working with Prof. Mutsalklisana on an Internet of Things project dealing with latest data technologies.

ACADEMIC PROJECTS

Agri-Business Logistics Using Internet of Things (IoT) **Oct 2015 - Dec 2015**

- Formulated problem for smart supply of food products to consumers from farmers governed by FDA.
- Implemented Ecosystem Model for Java Swing Desktop Application scalable at global using APIs and DB4O.
- Designed dashboards for retailers, suppliers, farmers to manage inventory products and monitor temperature & humidity sensors resulting in 20% food waste reduction.
- Employed UHF-RFID to track food product making process 83.33% faster.
- Generated timely reports for users using Business Intelligence algorithms.

Smart Prison Management **Oct 2015 - Dec 2015**

- Spearheaded team of 5 to remodel prison by integrating IoT such as RFIDs, GNSS, smart cards and health bands.
- Architectured & developed database model. Used polygons and spatial data to monitor prisoners movement.
- Archived data using incremental backup. Built website using bootstrap, JavaScript, PHP, AJAX and MySQL.

Automated Gastric Cancer Detection by Supervised Machine Learning **Aug 2014 - May 2015**

- Developed a system for computerized detection of cancer in endoscopic images using machine learning.
- Conducted image processing, segmentation, feature extraction, selection & classification using Weka & Matlab.
- Scrutinized behaviour of features on classifiers such as SVM, KNN, Bagging, Naive Bayes and Random Forest.
- Achieved accuracy of 87% on training dataset and 89% on testing dataset using Random Forest Classifier.
- Improved the overall system efficiency by 11% and reducing manpower by 40%.

Online Treasure Hunt (Renaissance Pirates) **Dec 2014 - Jun 2015**

- Led agile development methodology to conceptualize and develop a web portal for an online quiz game.
- Collaborated with 3 to build website. Handled traffic influx of more than 500 players, playing across the nation.
- Improved visibility of website organically and increased its prominence on Search Engine PageRank.