



## MANOJ KUMAR SINGH

Contact No.: 08368437840

E-Mail: singh.manojmca@gmail.com

Address: Flat No. N2- 1206A, Eros Sampooram, Sec. 2 Greater Noida West UP, India

### Project Management • Software Development

*Versatile, high-energy technocrat with the distinction of executing prestigious Information Technology projects of large magnitude within strict time schedules*  
*Industry Preference: **Software Services***

### PROFILE SNAPSHOT

- **MCA** with nearly 9 years of rich experience in **Project Management, Software Development, Data Management, Quality Assurance & Control** and **Client Relationship Management**
- Significant experience in all the phases of **Software Development Life Cycle (SDLC)** entailing requirement analysis, design, development, implementation, delivery, troubleshooting and support in Java/J2EE
- Proficient in carrying out **project coordination activities** entailing planning, scheduling, application maintenance & enhancement, project progress monitoring, regular reporting to various stakeholders and delivery
- Gained overseas exposure of visiting **Philippines, Netherland, China & France** for various assignments
- Abilities in **working with clients, project managers & technical teams** for securing & executing concurrent projects
- Possess a customer-centric and systems-driven approach to designing business solutions
- An enterprising leader with skills in leading personnel towards accomplishment of common goals

### ORGANIZATIONAL EXPERIENCE

April '16 - Till date as Freelancer

- |                   |   |
|-------------------|---|
| May'15 – March'16 | Centre for Agricultural Bioinformatics (CABin), Indian Agricultural Statistics Research Institute, New Delhi as Research Associate (Software Developer) |
| Feb'09 – Jan'15   | National Research Centre on Plant Biotechnology (NRCPB), Pusa Campus, New Delhi as Bioinformatics Associate (Software Developer / Data Manager)         |
| Jul'08 – Feb'09   | Indian Agricultural Research Institute (IARI), Pusa Campus, New Delhi as Research Associate (Software Developer)  |
| Mar'06 – Mar'08   | National Bureau of Plant Genetic Resources (NBPGR), Pusa Campus, New Delhi as Software Developer  |

#### Key Result Areas:

- Mapped client's requirements for the product and providing best solutions involving evaluation & definition of scope of project & finalization of project requirements/ needs
- Monitored multiple projects from conceptualization and visualization to technology mapping and final execution
- Ensured timely completion & delivery of project to the client and extending production support of multiple applications
- Setting-up of communication channels across various horizons of organization structure
- Implemented solutions that effectively resolve problems / issues and provide improvement
- Carried out the system study and coordinating with team members for product documentation, system design & integration, coding, application maintenance, etc.
- Developed, implemented & provided post-implementation, application maintenance & enhancement offshore support to the client with regard to the product / software application
- Gathered requirements from client, preparing estimates & requirement specification, creating prototypes and developing technical specification documents
- Administered development activities and conducting timely risk assessment & mitigation; managing and providing technical & process level guidance/support to the project team

#### Accomplishment:

- Served as co-ordinator of data management community of practice (CoP) of CGIAR Generation Challenging Programme (GCP), Mexico for 1 year in 2011

## ACADEMIC DETAILS

2005	<b>MCA</b> from BIT, Meerut (U.P. Technical University, Lucknow, U.P.)
2000	<b>M.Sc. (Mathematics)</b> from P.G. College, Ghazipur (V.B.S. Poorvanchal University, Jaunpur, U.P.)
1998	<b>B.Sc. (PCM)</b> from P.G. College, Ghazipur (V.B.S. Poorvanchal University, Jaunpur, U.P.)

## ACADEMIC PROJECT

### During MCA:

<b>Title:</b>	<b>Editing &amp; Imputation using Neural Network (NNI)</b>
<b>Area:</b>	Artificial Intelligence
<b>Description:</b>	Editing & imputation using back propagation neural network are used for imputation of missing values in any survey data. There are various imputation techniques like zero Imputation, mean imputation, hot deck imputation, etc.

### Role:

- Designed various entry forms in Java Swing and Core Java
- Implemented back propagation Neural Network Algorithm and tested n-n-1 model with one hidden layer
- Carried out evaluation & assessment of different imputation techniques

## PROFESSIONAL TRAININGS

- **Integrated Breeding Course** from CGIAR Generation Challenge Programme (GCP), Mexico for 15 days in 2012
- **ICIS & Orientation about Application for Molecular Breeding** from IRRI-International Rice Research Institute, Philippines for 19 days in 2009
- **Java / J2EE** from Tuple Pvt. Ltd., Meerut, U.P. for 3 months in 2004

## IT SKILLS

<b>Languages:</b>	Java / J2EE and C
<b>Java Technologies:</b>	Java Swing, Java AWT, I/O Stream, Multi-Threading and JDBC
<b>Web Technologies:</b>	JSP, Servlet, JavaScript, AJAX, Java Applets, Struts, Spring, Hibernate, HTML and XML
<b>Web Servers:</b>	Tomcat 8
<b>Tools:</b>	Eclipse, Net Beans
<b>RDBMS / DBMS:</b>	MYSQL, MS SQL Server and MS Access
<b>Operating Systems:</b>	Windows 98 / XP / 2000 / 7 and Linux

## PERSONAL DETAILS

Date of Birth:	29 <sup>th</sup> August, 1978
Languages Known:	English and Hindi

*~ Please refer attached Annexure for Project Details ~*

## ANNEXURE

### PROJECTS UNDERTAKEN

#### ***At Centre for Agricultural Bioinformatics (CABin), Indian Agricultural Statistics Research Institute, New Delhi:***

**Title:** A New Distributed Computing Framework for Data Mining  
**Designation:** Developer (Research Associate)  
**Technologies:** Windows 7 Professional, Java, Multithreading, JSP, spring, Hibernate, JavaScript, AJAX, Bioinformatics tools, Tomcat 8 and NetBeans  
**Description:** Development of high performance computing solutions on web based for gene regulatory network models under ICAR project  
**Role:**

- Accountable for software design & flow chart
- Involved in coding for integration of bioinformatics tools & designing of different modules

#### ***At National Research Centre on Plant Biotechnology (NRCPB), Pusa Campus, New Delhi:***

**Title:** National Rice Resources Database  
**Designation:** Developer (Bioinformatics Associate)  
**Technologies:** Windows 7 Professional, Java, JSP, spring, Hibernate, JavaScript, AJAX, Tomcat 8, MySQL 5.6 and Eclipse  
**Description:** Query based information system offer different rice trait as well as associated SSR, SNP and other marker information.

**Role:**

- Involved in design of database to store the data
- Accountable for connection of Java Server Pages to MySQL database through type-4 driver
- Coding different modules like login, SSR, SNP, marker information, admin and feedback
- Embedding MySQL queries to make transactions and fetch records
- Designed various forms like login, SSR & SNP, Marker Information, admin and feedback

**Title:** Molecular Marker Technologies for Faster Wheat Breeding in India  
**Designation:** Data Manager (Bioinformatics Associate)  
**Technologies:** Red Hat Linux, JSP, Joomla, MySQL and Tomcat 5  
**Description:** The overall aim of this project is to enhance the bioinformatics capacity of this project to ensure that all data and information generated is used efficiently and effectively by project participants.

**Role:**

***As Database Administrator:***

- Accountable for management of central database & server
- Converted local to central Ms Access database through script
- Transferred Ms Access to MySQL central database
- Placed MySQL central database into NRCPB central server
- Connected central MySQL database to IWIS website

***As Developer:***

- Updated Joomla based International Wheat Information System (IWIS) website

#### ***At Indian Agricultural Research Institute (IARI), Pusa Campus, New Delhi:***

**Title:** AGROWEB – Digital Dissemination System for Indian Agricultural Research  
**Designation:** Developer (Research Associate)  
**Technologies:** Windows XP, JSP, Servlet, Java Beans, JavaScript, Tomcat 5, SQL Server and Eclipse 3.2  
**Description:** Online searching for databases of M.Sc. / Ph.D. students admitted during the past decade with year-wise updation and other PG School activities. Database of faculty of PG School, IARI (including IASRI and NBPGR) with linkage to research accomplishments of various divisions at IARI.

**Role:**

- Accountable for connection of Java Server Pages to SQL Server database through type-4 driver
- Involved in coding & designing of different modules like students & faculty profile, research activity, admin and feedback
- Embedded SQL queries to make transactions and fetch records

**At National Bureau of Plant Genetic Resources (NBPGR), Pusa Campus, New Delhi:**

**Title:** Digitalization of Extant Varieties – Online Searching for Plant Genetic Resources Information  
**Designation:** Developer  
**Technologies:** Windows XP, JSP, Servlet, Java Beans, JavaScript, Tomcat 5, SQL Server and Eclipse 3.2  
**Description:** Online searching for plant genetic resources information system has six-module namely passport information, gene bank information, exchange information, frequency, admin and feedback. In passport information user can easily retrieve all the passport related data of the various crops as per their specifications such as accession number, institute name, crop name, botanical name, crop group name, herbarium, LTS, MTS, invitro, cryo, state, district, village, etc. In gene bank module user can easily retrieve all the plants germplasm related information as well as exact physical locations of the germplasm stored in gene bank. In exchange information module user can customize searching exchange information of the various crops as per their specification such as EC no, receipt date, crop group name, crop name, botanical name, source, organization status, identify traits, CG center, MOU / Gov., private, etc. Frequency module are used for frequency regarding various specifications such as crop name, botanical name, crop group name, LTS, MTS, Institute, etc.

**Role:**

- Accountable for connection of Java Server Pages to SQL Server database through type-4 driver
- Involved in coding & designing of different modules like passport, gene bank, exchange information, frequency, admin and feedback
- Embedded SQL queries to make transactions and fetch records

**Title:** Institute Information System (IIS)  
**Designation:** Developer  
**Technologies:** Windows XP, Java and SQL Server 2000  
**Description:** Information system can be defined as a collection of people, procedure, machine, ideas, and activities that gather and process data in a manner that will meet the formal requirements of an organization. This project is developed to monitor the disciplinary growth of various institutes in India regarding their crop collection information, crop production, and horticultural plant information and employees details. To provide a database for the following activities of Institute's i.e. Institute Profile and Crop profile.

**Role:**

- Gathered information from end users (ICAR institute)
- Coded and designed of different modules as institute profile, crop profile and reports.

**Title:** The Global Plan of Action on PGRFA  
**Designation:** Developer  
**Technologies:** Windows XP, JSP, HTML, Tomcat 5 and SQL Server 2000  
**Description:** The GPA- or Global Plan of Action – was adopted in 1996. It furnishes a framework for the varied activities carried out by nations and others on collecting, conserving, describing and using plant genetic resources. GPA gives priority to developing and strengthening national programs wherever possible. In this website we can get information about Plant Genetic Resources and stakeholder of India. This website give information about National Focal Point of India related to PGR.

**Role:**

- Developed online modules in JSP, HTML & JavaScript