

**Present Address**

5228, Madison Ave. Apt2a  
Okemos, MI 48864

**Mallikarjun Banda**

Mobile: 605- 480- 4331  
Email: [malli.dsu@gmail.com](mailto:malli.dsu@gmail.com)

**Summary:**

- Recent Graduate with majors in Information Systems and a work experience of 2.7 years in a startup environment working at both system and application level.
- Strong foundations in core courses and Academics projects strengthened my problem-solving ability and continuous development.
- Startup Environment gave me excellent opportunity to work with multiple modules at a time with iterative strategies, production ready code, testing methodologies with requirement bounds.
- Developed strong Coding and debugging skills intent to deliver a bug free and reliable code.
- Practical understanding of Project Management and Software Development Life Cycle.

**Work Experience:****Software Developer****STEM LABS INDIA PVT. LTD.****Jan 2013 – Jul 2015****Jan 2013 – Dec 2013**

- Worked on the Linux module development and Integration with Robot Operating System.
- Coded and integrated various sensor modules with ROS.
- Worked in developing Dynamic Shared Libraries and Loadable libraries.
- **Skillset:** C/C++, Python

**Jan 2014 – Jul 2015**

- Developed and Supported various in house applications like Payroll, Sales and Customer Manager using JSP, Servlets, Struts, Hibernate and EJB.
- Fixed and Enhanced legacy java code to its optimized state resulting better performance (modifying Data Structure and Collections).
- Enforced design patterns such as Singleton, Factory, and Observer.
- Worked and used JSON notations to transfer data between client and server communications.
- Worked with Oracle SQL as primary database.
- Involved in JDBC tuning and configuring connection pools.
- Successfully enhanced HTML, CSS, and JavaScript code blocks in legacy applications for better data handling.
- Initiated and worked in transforming legacy in house web application to single page application using Angular.js framework.
- Enhanced SQL queries and table Joins quires for better performance.
- Developed and deployed Session and Entity Beans for database updates.
- Involved in writing test cases and setting test environment.
- **Skillset:** Java, J2EE, CSS, Java script, JSP, JPA, Spring, Angular JS, Hibernate, EJB, JUnit HTML, Oracle 11g.

**IBM Blue Developer  
Intern****IBM ISL India.****July 2012 – Dec 2012****Proof of Concept:** Confidential**Area:** Systems Development

- Successfully Developed, Deployed & Tested a Proof of Concept Provider Module for System Director Platform Agent to avoid redundant drivers.
- Duties Involved developing a Proof of Concept Solution to the Problem exposed and to verify its feasibility.
- Discuss the design and implementation with team and supervisors to analyze any possible changes.
- Achieved a feasible POC resulting less footprint size of System Director Operating Systems Agents.
- Developed test cases and documentation.
- Skillset: C, C++, System Director, CIM, CMPI, Shared libraries, assert

**Software Developer Co-op**

**NIRD - INDIA**

**Dec 2008 – May 2009**

**Participant Referral System**

- Design and Developed a Participant Referral System to keep track of Organization Courses, Guest Enrollments, Automated Invitation publishing, Enrollment of participants, Housing arrangements and Expenditure.
- **Skillset:** LAMP, JSP, Servlets, HTML, JavaScript, Oracle SQL

**Education:**

**Aug 2015 - Present**

**DAKOTA STATE UNIVERSITY**

**Madison SD**

- **M.S.** in Information Systems (Majors: Application Development).

**GPA: 3.8/4.0**

**Dec 2010 – Jan 2013**

**BIRLA INSTITUTE OF TECHNOLOGY  
AND SCIENCE - PILANI**

**Rajasthan, IN**

- **M.E.** in Software Systems

**GPA: 3.2/4.0**

**Graduate Assistant & Research Assistant Positions:**

Teaching Assistant for Software Architecture & Research Assistant for Software Engineering Courses.

**Academic Projects:**

- **Basic Storage Architectures:** Understanding Basic View and Configuration of SAN and NAS storage Architectures on VMware vSphere ESXi Hypervisor. [Free NAS OS].
- **Java Applications:** PDF maker (Apache pdfbox api), Multi-document search app (Apache Lucene api)
- **.NET Applications:** Weather dashboard, Enhanced Task Manager, Form applications: feedback forms, Authentication forms,
- **Mobile / Web Applications:** Rest API for pdf converter, Experience in building and consuming REST web services.
- **Hands on:** Vagrant to provision VM's, Vagrant + Open vSwitch, OpenStack deployment

**Languages and Technologies:**

- **Programming Languages:** C, C++; core Java; Python; SQL; Java Script; ASP.Net; PHP; Perl
- **Environments:** Linux; Windows, OpenStack Cloud Environment; GitHub; Web servers;
- **Key Interests:** Algorithms; Virtualization; Operating Systems; Networking; Cloud Computing; Web Programming

**ADDITIONAL EXPERIENCE AND AWARDS**

- A Diploma in System Software Development: [C-DAC] Center for Development of Advanced Computing – Ministry of IT - INDIA.
  - Innovations and Research: [Optimal Test sequence generation using Firefly Algorithm](http://malli25.github.io/) ; Publisher: Elsevier
- Actively Volunteering Mozilla User Support [SUMO Team].

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<http://malli25.github.io/>