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Mallikarjun B

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Summary:

- Recent Graduate with majors in Information Systems System's with work experience of 4.7 years combining 2.7 years in a startup environment, working on system and application level and another 2 years on academic projects, assistantship & an internship.
- 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.
- Committed to Continuous Improvement and productive.

Work Experience:

Project Assistant (Volunteer)   **DAKOTA STATE UNIVERSITY**   **Sep 2015 – Dec 2016**

Assignments Automation: The Project aims to build an Automation in validating the programming assignments and report generation for each individual or team submission.

- Involved in building a Java web application which accepts assignment (source code) in zip or tar files.
- Involved in Automating submission on to version control.
- Worked on integrated a java mail client with the application which updates students on approaching deadlines, submission acknowledgement and evaluation report.
- Skill set: Java, Java Mail API, Swings, Servlet, JSP, EJB, MYSQL, GitHub.

Software Developer   **STEM LABS INDIA PVT. LTD.**   **Jan 2013 – Jul 2015**

- Developed and Supported various in house applications like Payroll, Sales and Customer Manager using JSP, Servlets, Structs, 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 at desired scenarios.
- Enriched Legacy struts based User Manager with Spring MVC for better modularity.
- Worked with data standards on transferable data between apps [JSON] and data from Databases[Oracle]
- 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 web application to single page application using Angular.js framework.
- Enhanced SQL queries and table Joins queries for better performance.
- Practiced a test-driven development environment to achieve a reliable incremental functionality.
- Test report generation using Mockito and detailing using Java reflection API.
- **Skillset**: Java, J2EE, CSS, Java script, JSP, JPA , Spring MVC, Spring AOP, Hibernate, EJB, Junit, Mockito 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 Linux Agents.

- Developed test cases and documentation.
- Skillset: C, C++, System Director, CIM, CMPI, Shared libraries, assert, Linux Internal Programming.

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, Struts 2.0

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** GPA: 3.2/4.0
- **M.E.** in Software Systems		

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, ISCSI drive].

  Java Applications: PDF maker (Apache pdfbox api), Multi-document search app (Apache Lucene api),

  https://github.com/Malli25/JavaProjects.git
- .**NET Applications:** Weather dashboard, Enhanced Task Manager, Form applications: feedback forms, Authentication forms. [C#, SQL Server 2014]
- **AWS S3 client:** A Java application to Create / Store / Update files and folders on AWS S3 storage.
- **Dynamic Website on AWS:** A PHP website to understand AWS Beanstalk, S3, EC2, Load Balancer on a manually configured Linux VM.
- **Hands on DevOps:** Java web app deployment on AWS with CI & CD environment using Jenkins & AWS EBS, Code Pipeline and Code Deploy; Vagrant VM Management with Chef as Provisioner and VirtualBox and Amazon EC2 as providers and Git Source Control;

Languages and Technologies:
- **Programming Languages:** C, C++; core Java; Python; SQL; Java Script; Type Script; C#.Net; PHP;
- **Environments:** Linux; Windows, OpenStack & AWS Cloud Environment; GitHub; Webservers; VM
- **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 ; Publisher: Elsevier
- Actively Volunteering Mozilla User Support [SUMO Team].

- External Coursework: Cloud Academy – Devops Fundamentals, Getting Started with Puppet, Getting Started with Chef, Working with AWS DNS, AWS fundamentals.