Vengatesan N (Venkat)

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Expertise

 With 13 years of experience in software designing and implementing the distributed, enterprise software products, turning POC's into projects, engaging with clients, generating innovative ideas, leading the software product teams, and mentoring.

Skilled in cognitive computing, Data Engineering, IBM Cloud technologies, Analytics, Microservices, DevOps, and Data Visualization. Excel at cloud solution architecture, development, and analytical products design across various domains such as System virtualization, Cognitive system, Automation, and E-commerce.

Worked across multiple cross-functional teams in high visibility roles and owned end to end data solutions. Complete understanding of object-oriented and functional programming, software design patterns, coding standards and full software life cycle project management.

Excellent leadership and communication skills with experience in managing and leading agile teams.

* Java 8, J2EE, Python, Spring Boot and Spring Framework ecosystem (Security, Data JPA, MVC, Spring Cloud), Hibernate, Kafka, Elastic Search, JavaScript
* REST API, Microservices, MySQL, MongoDB, CouchDB, Redis
* Angular JS, jQuery
* IBM Cloud
* JUnit, Mockito
* Docker, Jenkins, Chef, Puppet, YAML, Kubernetes
* GIT, GitHub, JIRA, Confluence, MS Office, Eclipse, IntelliJ, Maven, Gradle
* Jenkins, CI/CD

PROFESSIONAL EXPERIENCE

**IBM India Pvt. Ltd. (DWS Labs), Bangalore. (Aug 2012 – Present)**

Digital Workplace Services using IBM Watson assistance services.

 **Software Architect** (Nov 2019—Present)

Architected and implemented an end-to-end multi-tenant application that is a knowledge source repository to curate and train the content to Watson Assistance and crawl the content from various data sources to deploy them along with required configuration to function the chatbot and virtual agent application.

* Apply NLP Watson capability to extract the questions from the content and train the articles that saved cost, reduced human inversion, increased computation speed to process data and deployed the articles instantly in the production instances.
* Innovate a new Idea to resolve the tickets in an efficient and quicker as we have a huge amount of data that can be used in the support team to resolve the ticket. The idea is when a ticket is open, the application reads and understands the content and queries Watson Assistance to get the relevant answer and intercept the answer into the ticket. This POC turned into a project that integrated into our internal team.
* Apply design patterns and coding standards that perform large-scale data processing
* Work closely with the business to prioritize business requests, develop work slate, provide estimate efforts, capacity planning, ensure timely delivery and measure success

 **Staff Software Engineer** (Oct 2016—Nov 2019)

* Migrate from monolithic application to microservice-based architecture using spring framework
* Implement Knowledge management service which can be managed by Information Architect to train the content to Watson Assistance. So that workplace service applications would continuously be learnt to provide the accurate answer to engage with users.
* Implement Deployment service which can be deployed all content along with required configuration to workplace service applications using spring batch processing. The content will be translated into different languages and all language content will be deployed.
* Discover the right dataset and ingest it into S3 that is being consumed by Information Architect and deployment service to deploy the content into different instances such as staging, production.
* Deploy open-source tools and techniques - workflow, CI/CD pipeline architecture that saved cost and increased computation speed to process data
* Implement a service to crawl data from various data repositories and persist the data in Elastic search for indexing and searching and it can be used to show the results in the related answers.

**IBM India Pvt. Ltd. (India Software Labs), Bangalore**

Simplification of Platform Management Console.

 **Staff Software Engineer** (Aug 2012—Oct 2016)

* Designed and implemented the REST APIs for enabling the virtualization feature in the management console.
* Built job framework for long-running commands.
* design and develop generic infrastructure framework of RESTful Webservices, which enables developers implement various CRUD services for virtualizing resources like memory, processor, storage, and network resources managed by Power Hardware Management Console.
* Complete end to end ownership of all external interfaces of HMC product. Architect, design, and delivery of various functionalities, drive continual performance, scalability improvements

**Alton Calsoft Labs Pvt. Ltd. Bangalore**

**Technical Lead - Development** (Sep 2008—Aug 2012)

 Alteon Application Switch.

* Responsible for Implementing APIs for load balancing feature in the application.
* Enabled web-based interfaces for this application.

**Quantas (I-Mind web Services Pvt. Ltd), Chennai**

**Senior Program Analyst** (Oct 2006—Sep 2008)

* Involved web application development for e-commerce-based domain.

EDUCATION AND PUBLICATION

**Anna University**, Chennai, India

Bachelor of Engineering in Computer Science with 82%, 2001 – 2005

**Publication:** Methods and Technique to find frequently used features and use cases by analysing production logs for applications and cloud-based solutions <https://priorart.ip.com/IPCOM/000249573>