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SURESH PAWAR

Digital Transformation | Enterprise Architecture | Software Architecture & Design | AI ML Generative AI | Cloud Architecture | Snowflake| Elastic Stack (ELK) | Technical Blogger

SUMMARY

A Seasoned Technologist and Architect with a distinguished 19-year career in leading architecture, engineering, and technology teams. Expert in driving digital transformation and crafting innovative solutions through strategic technology leadership. Acknowledged as a thought leader in software and cloud architecture, coupled with a flair for emerging technologies. Demonstrates exceptional ability in transforming business requirements into sophisticated technology strategies and tangible solutions.

An Artificial Intelligence, Machine Learning, and Generative AI professional, with a robust portfolio of projects in areas like machine learning, deep learning, natural language processing, and Generative AI. These projects span a wide range of applications including prediction, classification, sentiment analysis, Q&A chatbots, text summarization/classification, and entity extraction. Currently exploring Retrieval Augmented Generation (RAG) Architecture for building Gen AI use cases. For an in-depth view of my comprehensive project work, please visit my portfolio at <https://sureshpawar.net>

*Experience:

- ✓ Expertise in software architecture, cloud architecture, AI/ML and Gen AI.
- ✓ Proficient in open-source technologies and highly skilled in crafting well-architected software products using Microservices Architecture, Domain Driven Design, Event-Driven Reactive Architecture, and Service Oriented Architecture
- ✓ Led the architecture and management of cross-functional teams for SaaS business technology
- ✓ Implemented innovative solutions and best practices to optimize system performance, notably reducing downtime and boosting customer satisfaction.
- ✓ Collaborated with stakeholders to craft strategic technology roadmaps, ensuring alignment with business goals and long-term competitiveness.
- ✓ Championed cloud-native technology adoption, leveraging microservices and event-driven architectures for improved reliability and scalability
- ✓ Actively participated in hackathons and Kaggle competitions, concentrating on AI and ML to demonstrate skills and innovative approaches
- ✓ Designed and implemented robust observability platform for APM monitoring and alerting systems, reducing mean time to identify and resolve issues.
- ✓ Mentored and coached team members, fostering a culture of innovation, collaboration, and continuous learning.

*Certifications

- ✓ Certified as a Google Cloud Certified Professional Cloud Architect
- ✓ AWS Certified Solutions Architect Associate
- ✓ Google Cloud Certified Machine Learning Engineer
- ✓ AWS Certified Machine Learning Specialty
- ✓ Generative AI with Large Learning Models (LLM's) by Deeplearning.ai
- ✓ Certified Generative AI Expert™ by Blockchain Council
- ✓ The Open Group Architecture Framework TOGAF® 9 Certified Enterprise Architect
- ✓ Snowflake Certified SnowPro Core and SnowPro Advanced Architect

EDUCATION DETAILS

- Bachelor of Computer Science and Engineering (B.E.) from SSGM College of engineering Shegaon, Maharashtra, India affiliated to Amravati University, Maharashtra, India - Completion Year, 07/2004.
- Post Graduate Program in Artificial Intelligence and Machine Learning from University of Texas at Austin, Texas, USA – In Progress expected in 04/2024.

TECHNICAL SKILLS

Programming Languages: Java, Python JavaScript, C#

Frameworks: Spring Boot, Spring Cloud, Spring MVC, Spring Web Flow, Spring WebFlux, Spring Data, Spring Security, Spring Batch, Spring IO, Hibernate, JPA, JMS, Struts 1.x, Flask

Web Technologies and SPA Frameworks: Angular, Typescript, Angular JS, React JS, NodeJS, Bootstrap, CSS, Sass

AI/ML/Gen AI:

Mathematics and Statistics:

Linear Algebra, Calculus, Probability of Information Theory

Frameworks and Libraries:

NumPy, Pandas, Seaborn, scikit-learn, Jupyter Notebooks, Keras, TensorFlow, Vertex AI

Exploratory Data Analysis (EDA):

Univariate and Bivariate Analysis, Data Preprocessing.

Machine Learning:

Linear Regression, Decision Tress, K-Means Clustering, Bagging, Boosting, Model Hyperparameter Tuning.

Deep Learning:

Deep Neural Networks, ANN, RNN, CNN, Natural Language Processing, LSTM

Generative AI:

Prompt Engineering, Conversational Chat and Search Vertex AI, Open AI Assistance, custom Chat GPT's, LLM tuning using PEFT, LoRA, Vector Databases, Retrieval Augmented Generation (RAG) with LangChain, LLM Evaluation ROUGE. Open source LLM's from Hugging Face, Streamlit Cloud.

MLOps:

Pipelines and model deployment on Google Vertex AI

Test Frameworks: JUnit, Mockito, Easy Mock, Karma, Jasmine, Protractor.

Web/Application Servers: Tomcat, Oracle Web Logic, IBM WebSphere

Security: WSO2, SSO SAML, OAuth 2.0, OpenID Connect, Azure AD, JWT

Databases: Oracle, MySQL, Postgres, NoSQL Mongo DB

DevOps Tools: ANT, Maven, Jenkins, SonarQube, CI/CD pipelines, JFrog Artifactory, Octopus Deploy, Docker Containers, Kubernetes

Source Control: Git/Bitbucket, Sub Version (SVN), Clear Case

Middleware's: Apache Kafka, Web Sphere MQ and Message Driven Beans (MDB), Apache QPID, Mule ESB

Cache Frameworks: Redis, HazelCast

Cloud Technologies: AWS, GCP, Elastic Stack (ELK), Snowflake

Operating System: Windows, Linux Ubuntu, CentOS 7, Red Hat8

IDE: IntelliJ, PyCharm, WebStorm, VS Code, Eclipse, Visual Studio, Spring Tool Suite

Other Tools: pgAdmin, SQL Developer, draw.io, Postman, Swagger, MS Visio, JIRA, Confluence, SharePoint.

RELEVANT PROJECT EXPERIENCE

UKG Inc. Weston FL, Lowell, MA

12/2021 - Till Date

Employer: UKG Inc.

Projects/Product: Ascentis HCM Suite – HR, Payroll, Talent and WFM

Role: Lead Architect

Responsibilities:

- Responsible as a Lead Architect for all product pillars of Ascentis.
- Work across architects, product owners, engineering leads and scrum teams to provide necessary architecture guidance and technical expertise.
- Successfully led the modernization of legacy desktop applications to web and mobile using microservices architecture.
- Successfully led the migration of products from legacy frameworks, operating systems, on-prem deployments to modern software frameworks, operating systems in cloud.
- Contribute to architect, design, develop, troubleshoot, and debug complex platform, software, and data issues across the enterprise.
- Enhance, design, and develop features for web-based self-service application to be used with HCM full-suite applications.
- Provide technical assistance to junior engineers as subject matter expert in all aspects of back-end.
- Collaborate with product management to determine cost effective solutions for solving existing and future product challenges, develop POC's to help drive architecture for the Product.
- Determine best possible technologies for product initiatives.
- Analyze weak points in current architecture and develop solutions.
- Ensure code quality through design and code reviews.
- Increase technical skills of development organization through training and examples.
- Develop and maintain team level architectural and coding standards.

- Evangelize architecture and coding best practices including TDD.

Business Abstract:

Ascentis offers easy-to-use human capital management, HRIS, online payroll, talent management, recruiting and timekeeping solutions that support greater business efficiency and accuracy.

Tech Stack: JDK 1.8, Spring 4.2.0, Hibernate 4.2.0, JPA 1.7.3, React JS, Angular, Swing, Struts, HTML, JavaScript, CSS, Sass, jQuery v1.10.2, Log4j 1.2.17, JUnit 4.10, Mockito 1.9.0, Maven 3, Git, Tomcat 10, Postgres 9, Unix, Linux Ubuntu. COBOL, C#, .NET, Elastic stack Elastic Search, Logstash, Kibana, Filebeat, Apache Kafka, SSO SAML, OAuth 2.0, JWT.

Ascentis Corporation, Eden Prairie, MN

08/2019 – 12/2021

Employer: Ascentis Corporation, Eden Prairie, MN

Projects/Product: Ascentis HCM and Payroll

Role: Associate Architect

Responsibilities:

- Responsible for acting as a technical leader and mentor for the development organization.
- Develop back-end services to extend and improve functionality, including components and libraries to be used throughout organization.
- Investigate market trends and collaborate with other engineers and product managers in defining future direction of back-end development.
- Enhance, design, and develop features for web-based self-service application to be used with HCM full-suite applications.
- Provide technical assistance to junior engineers as subject matter expert in all aspects of back-end.
- Collaborate with product management to determine cost effective solutions for solving existing and future product challenges.
- Determine best possible technologies for product initiatives.
- Analyze weak points in current architecture and develop solutions.
- Ensure code quality through project and code reviews.
- Increase technical skills of development organization through training and example.
- Develop and maintain team level architectural and coding standards.
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Ascentis Corporation, Eden Prairie, MN

01/2016 – 08/2019

Employer: Ascentis Corporation, Eden Prairie, MN

Projects/Product: Ascentis HCM and Payroll

Role: Senior Software Engineer

Responsibilities:

- Designing/Coding the new integrations with internal as well as external partner systems.
- Designing/Coding new services in micro services architecture.
- Designing/ Coding new features for the product.
- Analysis / Resolution of products production issues.
- Working with architecture to scale the product applications in the suite.
- Leading and Mentoring team members for technical support.
- Collaborating with partner product teams to deliver integrations.
- Implementing best practices for coding and code reviews, defect tracking.

Business Abstract:

Ascentis offers easy-to-use human capital management, HRIS, online payroll, talent management, recruiting and timekeeping solutions that support greater business efficiency and accuracy.

Tech Stack: JDK 1.8, Spring 4.2.0, Hibernate 4.2.0, JPA 1.7.3, React JS, Angular, Swing, Struts, HTML, JavaScript, CSS, Sass, jQuery v1.10.2, Log4j 1.2.17, JUnit 4.10, Mockito 1.9.0, Maven 3, Git, Tomcat 7, Postgres 9 Unix, Linux Ubuntu. COBOL.

HTC Global Services Inc, Troy, MI

12/2012 – 12/2015

Clients: University of California, State Farm Insurance

Projects: Environment Health and Safety – Applications Suite, Integrated Customer Platform – Billing and Payments Checkout UI

Role: Technical Consultant

Responsibilities:

- Involved in requirement gathering, analysis, planning and design of complete System.
- Created complete high level and low-level design.
- Setting up the application from scratch using Angular JS, spring, Shibboleth Authentication, MySQL, and Tomcat.
- Implemented SOAP and REST Web Services for integrating with other applications.
- Setting up the Unit Testing for Angular JS using Grunt, Karma and Jasmine and Unit Testing for backend using Junit and Mockito.
- Deployment of applications to various environments test/stage/prod.
- Collaborating with other teams for integrating applications within the suite of applications.
- Responsible for project tracking of deliverables and reporting project status to client.
- Implementing best practices for coding and code reviews, defect tracking.

Business Abstract:

Worked with Safety suite of University of California. This suite of applications is used by researchers across UC campuses in California.

Worked at State Farm Insurance, Integrated customer platform (ICP) is the organizational level initiative started by State Farm to enhance the customer experience.

Tech Stack: J2EE, JDK 1.6, JSP, Spring MVC, Spring Web Flow, Angular JS, Bootstrap, XML, SOAP and REST Web Service, SOA, AJAX, HTML, JavaScript, CSS, Tomcat, Mule ESB, Maven, Log4j, Subversion, JUnit, Easy Mock, Unix, Linux.

Cognizant Technology Solutions, Teaneck, NJ

03/2007 – 11/2012

Clients: Wellington Management Company, Blockbuster Inc, Merc Inc, JPMorgan Chase and Co, Chicago Board Option Exchange

Projects: Vendor Data Framework, Can I Trade and Catie, Appia to QFIX Migration for automated client tool and Performance Driver Development for CBOE trading System

Role: Associate - Projects

Responsibilities

- Worked as a onsite coordinator for various clients on different projects.
- Overseen offshore development team as a technical lead.
- Involved in requirement gathering, analysis, planning and design of complete System.
- Created complete high level and low-level design and working with offshore teams to get the code delivered.
- Project Tracking of deliverables and reporting project status to client.
- Code reviews, performance testing and setting up good practices like user manual documentation, technical documentation.
- Co-ordination of integration testing across different groups.
- Used various technologies and frameworks Struts, Spring, Hibernate, JMS, Tomcat, WebSphere, JMS, Oracle, MySQL.

Business Abstract:

Worked with 5 different clients on various projects like trading applications, data frameworks, corporate applications in various technologies.

Tech Stack: J2EE, JDK 1.4, JSP, Servlet, Struts, Spring, Hibernate, XML, SOAP Web Service, AJAX, HTML, JavaScript, CSS, Web Logic 10, ANT, Log4j, Accurev, JUnit, Unix, Linux, Oracle 10g.

Reliance Info Solutions Private Ltd, Mumbai, India

02/2005 – 03/2007

Employer: Reliance Info Solutions Private Ltd. Reliance Corporate Park, 4 TTC Industrial Area, Thane Belapur Road Ghansoli Navi Mumbai, 400 709 India

Projects: Sales Force Automation, Freight Rate System, Position Tracking and Communication

Role: Software Engineer

Responsibilities

- Development of the project using JSP and Servlet.
- Implemented the Front Controller Design Pattern for Web application
- Development of SQL queries for interaction with database layer.
- Writing of JDBC code for database interaction
- Support for QA and UAT testing.

- Involved in production go-live and postproduction support.

Business Abstract:

The client has business of transportation and logistics, the system is used to keep the track of new customers as well as existing customers and for making and updating contract of customer.

Tech Stack: J2EE, JDK 1.4, JSP, Servlet, Struts, XML, HTML, JavaScript, CSS, Tomcat, ANT, Log4j, MS Visual Source, Unix, Linux, Oracle 10g.

CERTIFICATIONS AND DIGITAL BADGES**Google Cloud Certified Machine Learning Engineer**

Credential URL: https://google.accreditable.com/c2e1333d-280d-49ee-a231-0524c8cd7049?record_view=true

AWS Certified Machine Learning Specialty

Credential URL: https://www.credly.com/badges/ddeace7f-330a-4f16-b381-53744c306f23/public_url

Generative AI with Large Learning Models (LLM's) be DeepLearning.AI

Credential URL: <https://coursera.org/share/e292643767d73cc094a7f8294f964138>

Certified Generative AI Expert™ by Blockchain Council

Credential URL: <https://www.credential.net/1c64d04e-0b2b-4bc8-ab88-75993c81c68b#gs.3k28et>

Digital Transformation for Tech Leaders

Credential URL:

<https://www.linkedin.com/learning/certificates/acb07b4e670b5aa920fd1c0f29f88eb5d8535964295160977ac3fef80709f1eb?u=96372338>

The Open Group Certified: TOGAF® 9 Certified Enterprise Architect

Credential URL: <https://www.credly.com/badges/8d20fd1f-4729-4442-be7c-17f0716aaf6e>

Google Cloud Certified Professional Cloud Architect

Credential URL: <https://www.credential.net/20a8489b-bdbd-4b0a-ac06-3554c9551b97>

AWS Certified Solutions Architect - Associate

Credential URL: https://www.credly.com/badges/051a0bc5-6316-47f0-b8d5-c05fdbfdb72f/public_url

Credential URL: <https://aw.certmetrics.com/amazon/public/verification.aspx>

Validation Number: 04LGPM7CL2R11VS7

Snowflake SNOWPRO Core Certification

Credential URL: <https://www.credly.com/badges/5ee459b4-a1fc-4ad1-b9bc-7839096c8081>

Snowflake SNOWPRO Advanced - Architect

Credential URL: https://www.credly.com/badges/3763b219-1982-4c9a-b107-35f63284dc29/public_url

Angular 15

Credential URL: <https://www.udemy.com/certificate/UC-8f4334c3-e685-4ee8-9b28-860b890ff8e9/>

Reactive Architecture Foundations

Credential URL:

https://www.youracclaim.com/badges/5b1fce6d-d31c-431c-8627-d9e0c12602f3?source=linked_in_profile

Reactive Architecture: Advanced

Credential URL:

https://www.youracclaim.com/badges/f5c08427-7ec5-4d65-b60d-06e7547cfea0?source=linked_in_profile

Mongo DB Basics

Credential URL:

https://university.mongodb.com/course_completion/9205df3a-bc79-47ea-99a2-db8f731cb5d3?utm_source=copy&utm_medium=social&utm_campaign=university_social_sharing

Mongo DB for Java Developers

Credential URL:

https://university.mongodb.com/course_completion/cf47964d-301e-417b-8ef6-6d54b080e7fa?utm_source=copy&utm_medium=social&utm_campaign=university_social_sharing

Apache Kafka Series - Learn Apache Kafka for Beginners v2

Credential URL: <https://www.udemy.com/certificate/UC-FP9273VY/>

Apache Kafka Series - Confluent Schema Registry & REST Proxy

Credential URL: <https://www.udemy.com/certificate/UC-OP8FFI90/>

Docker Essentials: A Developer Introduction

Credential URL:

https://www.youracclaim.com/badges/0a0940c0-b946-4d02-997e-b348b24c133a/linked_in_profile

Data Science Foundations - Level 1

Credential URL:

https://www.youracclaim.com/badges/b640e7b1-54ec-4288-82ff-a779da30e96e/linked_in_profile

Enterprise Design Thinking Practitioner

Credential URL:

https://www.youracclaim.com/badges/7d330b03-8e1b-42a5-bf34-ab3b7e748fde/linked_in_profile