

Srikanth Thandra

AI & Cloud Solution Architect | Python, Java, PHP | AWS, Azure |
Full-Stack & Enterprise Modernization



Summary

AI-Enabled Cloud Solution Architect with 20+ years of experience in designing and delivering enterprise applications using Java, Python, and PHP across AWS and Azure platforms. Strong experience in building scalable microservices architectures, RESTful APIs, and cloud-native applications, with hands-on experience in Spring Boot and JEE-based systems, along with enterprise backend development.

Proven ability to modernize legacy systems into microservices using Docker, Kubernetes, and cloud services, while integrating messaging systems (JMS, RabbitMQ) and implementing high-availability, event-driven architectures. Experienced in leveraging cloud services including AWS (SQS, SNS, Lambda, API Gateway, Fargate) and Azure for scalable infrastructure and deployment automation using Terraform and CloudFormation.

TECHNICAL SKILLS

- **Programming:** Java (Spring Boot, JEE, Servlets, Hibernate, JPA), Python, PHP
- **Architecture:** Microservices, RESTful APIs, Event-Driven Systems, Design Patterns
- **Cloud Platforms:** AWS, Azure, Serverless, High Availability Systems
- **AWS Services:** SQS, SNS, Lambda, API Gateway, Route53, EBS, Fargate
- **DevOps & CI/CD:** Jenkins, Maven, Git, GitHub Actions, Docker, Kubernetes, Terraform
- **Messaging Systems:** JMS, RabbitMQ, HornetMQ
- **Frontend:** Angular, React, JavaScript, HTML5, CSS3
- **Databases:** MSSQL, MySQL/Aurora, Oracle, DynamoDB, MongoDB, Redis
- **Data & ETL:** Talend, Informatica, AWS Glue, Snowflake
- **CMS & Platforms:** CodeIgniter, Drupal, WordPress, Magento
- **API & Integration:** REST, GraphQL, SOAP, OAuth2, API Gateway
- **Search & Indexing:** Elasticsearch, Apache Solr
- **Practices:** Agile/Scrum, SDLC, TDD/BDD, Code Reviews

WORK-EXPERIENCE

Zensar

Solution Architect (AI & Cloud)

Houston, Texas
 06/2025 – Present

- Designed and developed scalable backend applications using Python, PHP (CodeIgniter 2–4, Laravel), and SQL Server, supporting enterprise-grade business workflows and high-performance systems.
- Led modernization of legacy applications to cloud-ready, microservices-based architectures, improving scalability, maintainability, and deployment efficiency.
- Built and integrated **AI-enabled solutions and automation workflows**, leveraging Generative AI concepts, Copilot Studio, and API-based integrations to enhance business processes.
- Designed and implemented **RESTful APIs and service-oriented architectures**, enabling seamless integration across enterprise systems and cloud platforms.
- Developed and deployed applications across **AWS and Azure environments**, utilizing services such as Lambda, API Gateway, S3, and cloud-based infrastructure components.

CONTACT

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 [linkedin.com](https://www.linkedin.com)

EDUCATION

Lindsey Wilson University

Master of Science in
Technology Management
06/2024 -08/2025
Columbia, KY

Jawaharlal Nehru Technological University Hyderabad

Bachelor of Science in
Electronics & Communication
Engineering
06/2002 -06/2006
Hyderabad, India

Board of Intermediate Education A.P.

Intermediate (Math, Physics &
Chemistry)
06/2000 -08/2002
Hyderabad, India

Board of Secondary Education

High School
06/2000
Hyderabad, India

Certifications

AWS Certified Solutions
Architect - Professional

Magento Developer &
Developer Plus Certification

UiPath & SAP Orchestrator

ADDITIONAL SKILLS

CMS/Frameworks:

Drupal, WordPress, Magento,
Joomla, Yii, Laravel,
CodeIgniter, Symfony, Zend
Framework, Django, Flask

- Containerized applications using Docker and supported scalable deployments aligned with Kubernetes and cloud-native architecture principles.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions, enabling automated build, test, and deployment workflows across development and production environments.
- Built multi-site and multi-tenant platforms with centralized configuration, supporting multiple domains and scalable deployment strategies.
- Developed CMS-driven applications using WordPress and Drupal, integrating backend APIs and enterprise systems for dynamic content management.
- Integrated third-party systems including payment gateways (PayPal, Stripe, Authorize.Net) and enterprise APIs, ensuring secure and reliable transaction processing.
- Applied event-driven and asynchronous processing techniques, supporting scalable and high-throughput application workflows.
- Optimized database performance across SQL Server and MySQL using indexing, query tuning, and caching strategies to improve application responsiveness.
- Built reporting and data processing solutions, generating outputs in PDF, Excel, and CSV formats for business analytics and operational reporting.
- Configured and managed applications on Windows Server (IIS) and containerized environments, ensuring high availability and secure deployments.
- Collaborated with cross-functional Agile teams to design, develop, and deliver scalable enterprise solutions aligned with business requirements.
- Performed code reviews, debugging, and system optimization using best practices, design patterns, and clean architecture principles.
- Provided production support, monitoring, and performance tuning, ensuring system reliability and uptime.
- Collaborated on backend service design aligned with Java/Spring-based microservices architecture and enterprise integration patterns.

South Florida Water Management District



Houston, Texas

Solution Architect (Cloud, Data & AI-enabled Systems)  04/2024 – 06/2025

- Designed and developed enterprise backend applications using Python and PHP (CodeIgniter, Laravel, Symfony), integrating with SQL Server, MySQL, and Oracle for high-performance data processing and scalable system design.
- Built and deployed **microservices-based architectures**, containerized with Docker and orchestrated using Kubernetes, enabling scalable and cloud-native deployments across AWS environments.
- Designed and implemented **CI/CD pipelines** using Jenkins, CircleCI, and GitHub Actions, automating build, testing, and deployment workflows to improve release efficiency and reliability.
- Developed and integrated **RESTful APIs and service-oriented architectures**, enabling seamless communication between enterprise systems, SAP integrations, and cloud services.
- Implemented **data engineering and ETL pipelines** using Talend, Python, and AWS Glue, supporting data transformation, historization, validation, and large-scale data processing.
- Optimized ETL workflows across Snowflake, Hive, SQL Server, and Oracle, improving performance and enabling scalable data processing pipelines.
- Built and deployed **AI-enabled solutions and analytics workflows** using Python (Pandas, Scikit-learn), supporting predictive analytics, anomaly detection, and intelligent automation.
- Designed and implemented **NLP-based and data-driven solutions**, integrating machine learning models into enterprise applications for enhanced decision-making.

Programming Languages:

PHP, Python, C, JavaScript (ES6+), HTML5, CSS3, XML, jQuery, AJAX, React.js, Node.js, Smarty, Twig, YAML, Bootstrap, JSP, Servlet, ASP.NET, Laravel, CodeIgniter, Symfony, Flask, Django, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch

Web technologies:

- Apache
- Linux
- MySQL
- Python
- Java
- PHP
- HTML5
- CSS3
- JavaScript
- React.js
- WordPress
- Drupal
- Magento
- Node.js
- RESTful APIs
- GraphQL
- JSON
- YAML

DBMS:

- MySQL
- PostgreSQL
- Snowflake
- Oracle 8i
- SQL Server
- MongoDB
- Redis
- Hive
- Hadoop Ecosystem
- DynamoDB
- MS Access

ETL / BI / Data Visualization:

- Talend ETL
- Tableau
- Power BI
- Pandas
- Matplotlib
- Seaborn

Cloud & DevOps:

- AWS
- EC2
- S3
- RDS
- Lambda
- SageMaker
- Rekognition

- Developed **AI-powered dashboards and reporting systems** using Tableau, Power BI, and AWS QuickSight, providing real-time insights and business intelligence.
- Designed and deployed **AWS cloud architectures** leveraging EC2, S3, RDS, Lambda, and AI services, enabling scalable data pipelines and application hosting.
- Collaborated on **event-driven and messaging-based architectures**, supporting asynchronous data processing and integration patterns aligned with enterprise systems.
- Integrated CMS platforms (Drupal, WordPress) and backend systems with APIs and data pipelines, enabling dynamic content delivery and personalization.
- Defined and implemented **data warehouse and data lake strategies**, aligning ETL processes with cloud-native architectures and business analytics requirements.
- Delivered end-to-end solutions combining backend development, data engineering, cloud infrastructure, and AI-enabled analytics for enterprise applications.
- Worked closely with cross-functional Agile teams, participating in architecture design, requirement analysis, and delivery aligned with SDLC best practices.

Tata Consultancy Services

Solution Architect (Java, Microservices & Cloud)



Houston, Texas



10/2021 – 03/2024

- Designed and developed enterprise applications using Python, PHP (CodeIgniter, Laravel, Symfony), and Java-based backend services, integrating with MySQL and cloud-hosted databases for scalable data processing.
- Built and supported **microservices-based architectures** using Spring Boot, REST APIs, and Python services, enabling scalable, modular, and cloud-ready application design.
- Developed and integrated **RESTful and GraphQL APIs**, supporting secure, high-performance communication between frontend applications, backend services, and AWS cloud components.
- Created responsive and dynamic user interfaces using AngularJS, React.js, JavaScript, HTML5, and CSS3, delivering modern UI/UX and single-page applications (SPAs).
- Implemented **API-driven architecture** for enterprise applications, integrating backend services with databases, CMS platforms, and third-party systems.
- Integrated applications with **AWS services (EC2, S3, Lambda, RDS)**, enabling scalable cloud deployments and distributed application architectures.
- Designed and implemented **CI/CD pipelines** using Jenkins, GitHub Actions, and CircleCI, automating build, test, and deployment workflows across multiple environments.
- Built **data engineering and ETL pipelines** using Talend, Python, and AWS Glue, supporting data integration, transformation, and large-scale data processing.
- Developed **analytics dashboards and reporting solutions** using Tableau, Power BI, and AWS QuickSight, enabling real-time insights and business intelligence.
- Implemented **event-driven and messaging-based architectures** using Kafka and asynchronous processing patterns for scalable and high-throughput systems.
- Worked extensively with CMS platforms (Drupal, WordPress, Magento), developing custom modules, plugins, and integrations with enterprise backend systems.
- Designed and implemented secure authentication and integration solutions using OAuth2, API security standards, and enterprise integration patterns.
- Developed cross-platform applications and integrations using JavaScript frameworks, APIs, and mobile/web technologies, supporting real-time features and data synchronization.

- Comprehend
- Lex
- Bedrock
- Azure
- ADLS
- Azure ML
- Google Cloud AI
- Jenkins
- Docker
- Kubernetes
- Terraform
- Ansible
- Git
- GitHub
- GitLab
- CI/CD

Monitoring & Observability:

- Prometheus
- Grafana
- ELK Stack
- CloudWatch
- Nagios
- New Relic

Concepts:

- Object-Oriented Design
- Object-Oriented Programming
- Microservices
- API-driven Architecture
- Site Reliability Engineering
- Test-Driven Development
- Machine Learning
- Natural Language Processing
- Deep Learning
- Computer Vision
- Generative AI

Platforms / Environments:

- Windows Server
- Linux
- Ubuntu
- CentOS
- RedHat
- macOS
- LAMP
- WAMP
- XAMPP
- Dockerized Env

DOMAIN

Oil & Gas, Healthcare, Banking, Insurance, Travel, Water & Power

- Optimized backend systems and database queries, improving performance and scalability for high-traffic enterprise applications.
- Collaborated with cross-functional Agile teams, contributing to architecture design, requirement analysis, and delivery aligned with SDLC best practices.

Tech Mahindra

📍 Houston, Texas & Hyderabad, India

Technical Solution Architect (Enterprise Systems & Cloud) 📅 04/2014 – 10/2021

- Designed and developed enterprise-grade applications using PHP (CodeIgniter, Laravel, Symfony, Zend), Java (Spring Boot), and Python, integrating with relational and NoSQL databases for scalable and high-performance systems.
- Architected and delivered large-scale **e-commerce and CMS platforms** using Magento (1.x/2.x), Drupal, WordPress, and Joomla, including custom modules, payment integrations, and enterprise workflows.
- Designed and implemented **microservices-based architectures** using Spring Boot, REST APIs, and messaging systems (Kafka, RabbitMQ), enabling scalable, distributed, and event-driven systems.
- Built and deployed containerized applications using Docker and Kubernetes, supporting cloud-native application design and scalable deployment strategies.
- Designed and implemented **CI/CD pipelines** using Jenkins, GitHub Actions, CircleCI, Maven, Gradle, and AWS CodePipeline, enabling automated build, test, and deployment processes.
- Developed and optimized **data integration and ETL pipelines** using Talend, Hadoop, Snowflake, Hive, and AWS Glue, supporting large-scale data processing and transformation.
- Designed and implemented **cloud architectures across AWS and Azure**, leveraging services such as EC2, S3, RDS, Lambda, Redshift, DynamoDB, ADLS, and Azure Data Factory for scalable infrastructure and data platforms.
- Implemented **event-driven and asynchronous processing systems** using messaging platforms and distributed architecture patterns.
- Developed modern, responsive user interfaces using Angular, React.js, JavaScript (ES6+), HTML5, CSS3, and Bootstrap, delivering cross-platform user experiences.
- Integrated enterprise applications with third-party systems using REST, SOAP, OAuth2, SAML, and API-driven architectures for secure and scalable integrations.
- Implemented caching and performance optimization strategies using Redis, Memcached, Varnish, and Elasticsearch, improving system performance and scalability.
- Configured and managed enterprise environments across Linux/Unix and Windows platforms, including Apache, Nginx, Tomcat, JBoss, WebSphere, and WebLogic servers.
- Implemented **monitoring, logging, and observability solutions** using Prometheus, Grafana, ELK Stack, AppDynamics, Nagios, and New Relic.
- Led data migration initiatives from on-premise systems (Oracle, DB2) to cloud-based data platforms (Snowflake, AWS Redshift, Azure), improving scalability and accessibility.
- Applied **Agile methodologies (Scrum)**, leading cross-functional teams, managing delivery cycles, and aligning technical solutions with business objectives.
- Enforced **security best practices** including IAM, MFA, encryption, and vulnerability testing (SAST/DAST), ensuring compliance and secure application design.

Clients

Apple, GE, Baker Hughes, RFMD, McGraw-Hill, Gilead, and other Fortune 500 organizations

AWARDS

- Grand Guru Salute (For Architect)
- Pat on the Back (4 times)
- Employee of the Month
- Best Programmer

OTHER

- ARENA Multimedia, Aptech
- Programming From NIIT

Languages:

- English (Native)
- Telugu (Native)
- Hindi (Native)

Quad One

Magento Team lead (PHP)

📍 Hyderabad, Indian

📅 04/2012 – 03/2014

- **Developed and deployed web applications** from scratch using **Drupal** (custom themes, modules, APIs), **Magento Enterprise/Community**, **WordPress**, **Moodle**, **Joomla**, integrating **SAP ECC**, **E-commerce**, and **payment gateways**.
 - **Built scalable CMS & e-commerce solutions** with **Drupal +Magento integration**, custom workflows, SEO optimization, and third-party module customizations.
 - **Created responsive UIs** with **AngularJS/Angular**, **Bootstrap**, **HTML5**, **CSS3**, **JavaScript**, **jQuery**, **React.js**, and built **Single Page Applications (SPAs)** and **MEAN stack (MongoDB, Express, Angular, Node.js)** solutions.
 - **Administered and optimized databases** (MySQL, MariaDB, PostgreSQL, Oracle, SQL Server, Netezza) with PL/SQL procedures, performance tuning, and schema design.
 - **Configured & supported middleware** environments with **Tomcat**, **JBoss**, **WebSphere**, **Apache**, **Nginx**, deploying Java and PHP applications across multiple environments.
 - **Implemented caching and performance optimization** with **Memcached**, **Varnish**, **Redis**, and **ElasticSearch** for high-volume, high-performance systems.
 - **Applied Agile methodologies** (Scrum, retrospectives, sprint planning, Release Train Planning, Risk Management), leading and coaching teams through transition from Waterfall to Agile.
 - **Worked on identity & security integrations** with **Ping Federate**, **Ping Access**, **SAML**, **MFA**, **IAM**, **SSL**, **encryption**, and conducted **static/dynamic application security testing & penetration testing**.
 - **Implemented observability & monitoring** using **AppDynamics**, **CloudWatch**, **Grafana**, **ELK**, **Nagios**, **New Relic**, and troubleshooting Active Directory, DNS/DHCP, and clustering issues.
 - **Collaborated across global teams and vendors** (HP, IBM, Oracle, Red Hat, Symantec) ensuring compliance with **ISO 20000 standards**.
 - **Developed reusable components and plugins** in **PHP**, **jQuery**, **Angular**, **ColdFusion**, improving developer productivity and reducing time-to-market.
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IT Plexus India Pvt

PHP/ Web Developer Team Lead

📍 Hyderabad, Indian

📅 07/2010 – 03/2012

- **Developed interactive web applications** using **PHP**, **Ruby**, **Python**, **Perl**, integrated with **MySQL (MariaDB)**, **SQL Server**, **Oracle**, and reporting tools like **iReport/Jasper**.
- **Built and customized CMS platforms** with **Drupal** and **Magento (1.x)**, including module optimization and theme customization.
- **Developed reports and data extraction procedures** (student extract, locator reports) using **MySQL**, **SQL Server**, **Oracle** queries and custom procedures.
- **Created UIs and presentation layers** with **HTML5**, **CSS3**, **JavaScript**, **jQuery**, **AJAX**, **Bootstrap**, ensuring **cross-browser compatibility** and responsive layouts.
- **Worked on CodeIgniter and NOCMS frameworks**, building dynamic web applications with reusable modules and UI components.
- **Designed mockups, themes, and layouts** using **Photoshop**, **Adobe Flash**, **Dreamweaver**, converting them into functional web pages.
- **Optimized and customized existing Magento modules** and built new e-commerce features for online stores.
- **Managed Tomcat and Apache servers** for supporting front-end and backend applications in a **LAMP environment**.

- **Developed reusable UI components** (accordions, menus, rotators) using **jQuery plugins and JavaScript libraries**.
 - **Implemented core OOPs concepts in PHP**, improving scalability, maintainability, and performance of applications.
 - **Collaborated with business teams** for requirements gathering, presentations, and delivering user-friendly solutions.
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City Link

PHP Web Developer



Coventry, UK



10/2007 – 08/2009

- Designed, built, tested, and implemented stand-alone modules for Magento.
 - Customized Magento's inherent features based on client needs.
 - Developed and integrated features into Sage and Magento.
 - Actively involved in R&D for new technologies and recommend solutions that enable the company to achieve its goals.
 - Provided technical support and troubleshooting to clients and end users.
 - Experienced with Magento Commerce (creating modules, extending out-of-the-box functionality, layout creation and theming).
 - Experienced in submitting Magento modules into Magento marketplace.
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Forge Info Systems

PHP Web Developer



Hyderabad, India



08/2006 – 09/2007

- Wrote Facebook Instant Articles, Apple News and Google AMP custom plugins.
- Converted all project from Grunt to WebPack.
- Developed REST API for the website using Slim Framework.
- Created full development environment for project using Docker as well as for production.
- Developed custom clustering functionality for Google Maps from scratch.
- Developed Desktop App for optimizing images, videos, etc.

