

# SHIV CHANDRA PATHAK

91-8085094915 

## SENIOR SOLUTIONS ARCHITECT

Results-driven **Senior Solutions Architect** with 13+ years of expertise in **Enterprise Architecture, Cloud Solutions, DevOps Transformation, and Generative AI Applications**, aiming to drive organizational innovation through **secure, scalable, and AI-integrated cloud infrastructures**. Focused on delivering **enterprise-grade solutions**, optimizing performance, and fostering **cross-functional collaboration** to achieve strategic business outcomes.

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## PROFILE SUMMARY

- Accomplished **Senior Solutions Architect** with **13+ years of experience** in designing and implementing **enterprise-scale cloud, DevOps, and AI solutions** across diverse industries.
- Proven success in **designing secure, scalable, and resilient architectures** supporting large-scale deployments across **AWS, Azure, GCP, and OCI** environments.
- Expertise in **Generative AI enablement**, including **LLM integration, prompt engineering, and RAG-based system design**, delivering measurable business process optimization.
- **Leading cross-functional engineering teams to design and develop** the core platform architecture with robust authentication, authorization, SaaS enablement, and multi-tenancy capabilities across enterprise products.
- Collaborated with leading global clients across the Telecom and Software & AI domains — **including Jio, Telus, Smartfren, BTC, AT&T, Rakuten, Railtel, Nokia, Altiostar, Aramco Digital, Humain, Saudi AI, and Intel** — driving strategic technology implementations, digital transformation, and AI-driven innovation to enhance operational efficiency and customer experience.
- Recognized for driving **end-to-end solution delivery**, enhancing **deployment efficiency**, and ensuring **ISO 27001-compliant security frameworks** across platforms.
- Instrumental in establishing **AI innovation frameworks**, leading **cross-functional technical teams**, and mentoring enterprise-level product development initiatives.
- **Patent holder** in **Identity Management and Network Monitoring Systems**, demonstrating innovation in security and intelligent system automation.

## CORE COMPETENCIES

- Enterprise Architecture & Solution Design
- Cloud Strategy & Multi-Cloud Deployment (AWS | Azure | GCP | OCI)
- DevOps Automation & Infrastructure as Code (IaC)
- Generative AI Applications & LLM Integration
- Security Architecture & Compliance (ISO 27001, OWASP, OAuth2)
- Microservices & API Gateway Architecture
- High Availability & Disaster Recovery Strategy
- Cross-Functional Leadership & Stakeholder Management
- Innovation Enablement & Emerging Technology Adoption

## TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure, Google Cloud Platform (GCP), OCI
- **Containerization & Orchestration:** Kubernetes, Docker, Helm
- **DevOps & Automation:** CI/CD Pipelines, Jenkins, GitLab CI, Terraform, Infrastructure as Code
- **Programming & Development:** Java (Spring Boot), Python, Node.js, Microservices Architecture
- **Security & Compliance:** Application Security, OAuth2, JWT, Identity Management, OWASP, Vulnerability Assessment, Zero-Trust Architecture
- **AI & ML:** Generative AI, LLM Integration, Prompt Engineering, RAG Systems, Vector Databases
- **Data & Monitoring:** Hadoop, Spark, CloudSQL, Monitoring & Logging Systems
- **Networking:** IPv6, VLAN, OpenStack, Network Gateways, Security Layering

## KEY RESPONSIBILITY AREA

- **Architect secure, scalable, and high-availability cloud infrastructures** across multi-cloud ecosystems.
- **Lead AI-driven product innovation**, integrating **Generative AI, RAG systems, and LLM workflows** to enhance automation.
- **Drive DevOps transformation initiatives**, including **CI/CD pipelines, IaC frameworks, and automated deployments**.
- **Implement end-to-end application security architecture**, embedding **OWASP best practices** and **zero-trust principles**.
- **Collaborate with enterprise clients** to define **HLD, security design documents**, and technical roadmaps.
- **Lead cross-functional engineering teams**, fostering a culture of innovation, performance, and security.
- **Optimize infrastructure and cost efficiency** via **Kubernetes automation** and cloud-native solutions.
- **Establish governance and innovation frameworks** to accelerate product delivery and align technical solutions with business strategy.

## PATENTS

**Integrated Identity Management and Monitoring System** | US20240176855A1 | Filed: March 7, 2022

- Integrated identity management system that authenticates user credentials via an identity broker, generates logs, analyzes events, and triggers alarms for enterprise applications.

## Network Monitoring System with Automated Troubleshooting | US20240187398A1 | Filed: March 7, 2022

- Automated network monitoring system that detects issues, performs root cause analysis, initiates troubleshooting, and generates detailed performance reports.



## WORK EXPERIENCE

### Senior Solutions Architect (HumainOS / Humane AI) | Vision Waves, Indore | Mar'24 - Present

- **Designing an AI Orchestration Platform** empowering enterprises to build **domain-specific intelligent agents** (HR, NDA, Meetings).
- **Developed a Spring AI SDK** for seamless **LLM integration (Text, TTS, and RAG)**, ensuring interoperability across multiple AI service providers.
- **Built scalable core platform services** — workflow engine, notification system, **central authentication**, and **user management** — reusable across VisionWaves products.
- **Implemented enterprise-grade observability** using **Prometheus, Grafana, and JavaMelody**, enabling **proactive system health monitoring**.
- **Leading ISO 27001 and SOC compliance initiatives**, aligning **security architecture** with international standards.

### Technical Lead & Co-Founder | BootNext | Jul'22 - Feb'24

#### Email Singularity:

- **Developed an AI-powered inbox assistant** enabling **context-aware email automation, draft generation, and Outlook plugin integration**.
- **Designed RAG-based enrichment pipelines** leveraging **thread and attachment context** for intelligent and actionable replies.

#### DataByte:

- **Engineered a modular data platform** featuring **Spark-based ETL, 300+ connectors**, and an **intuitive drag-and-drop UI**.
- **Built advanced CDC frameworks** using **Kafka Connect** and custom **Spark + NiFi** engines for **real-time data synchronization**.
- **Created ProcBot automation framework** for **mass-scale device orchestration** through containerized execution at **NOC scale**.
- **Developed a Spark-based RCA engine** for **automated root-cause analysis** with **tree-based rule execution**.

### Project Lead | Rakuten Symphony | Jul'20 - Jun'22

- **Core contributor** in designing the industry's first **Zero-Touch Telco Orchestration Platform** for **Open RAN** deployments.
- **Designed cloud-native OSS stack** on **OpenStack VMs**, integrating **APIs, SNMP, and multi-protocol communication frameworks**.
- **Engineered a Zero-Trust Security Framework** featuring **dynamic credential rotation, SOC integration, and secure OSS access controls**.
- **Delivered 30+ OSS applications** (Planning, Monitoring, Orchestration, Identity, and Builder Tools), enabling Rakuten's **commercial mobile launch**.
- **Facilitated technical acquisition processes**, preparing **comprehensive product documentation and handover packages** during Rakuten's acquisition phase.

### DevOps Architect / App Security Lead / Tech Lead (Jio Projects) | InnoEye Technologies | Jun'16 - Jun'20

- **Designed and deployed** the *Customer Care Network Portal* for **Jio 4G**, enabling real-time **KPI visibility (RSRP, SINR, latency, jitter)** through NetVelocity integration.
- **Implemented dynamic coverage visualization** using **Google Maps API**, integrating site status, alarms, and maintenance layers, which improved **first-call resolution** efficiency.
- **Developed remote speed testing framework** via push notifications, enabling **customer care-triggered diagnostics** and real-time result synchronization.
- **Automated large-scale deployments** across **300+ network nodes** using custom scripts for JVM and Tomcat environments — a precursor to modern **containerized operations**.
- **Collaborated with Hortonworks** to manage **Hadoop clusters**, driving **root-cause analysis** for critical **production issues** (threading, memory, and network bottlenecks).

### Software Engineer → Senior Software Engineer | InnoEye Technologies | Jun'13 - Jun'16

- Developed prepaid/postpaid telecom systems for **Bahamas Telecommunication Company (BTC)**.
- Implemented recharge, provisioning, and network management using **SOAP web services**.
- Contributed to **high-availability, mission-critical architectures** with real customer impact.
- Designed and maintained databases, applied business logic, and supported production deployment.



## EDUCATION

### Master of Computer Applications (MCA) | Lakshmi Narain College of Technology, Bhopal | 2013

- Selected via campus recruitment by InnoEye Technologies Pvt. Ltd.
- Focused on advanced computer science concepts and software engineering principles.



## PERSONAL DETAILS

- **Date of Birth:** 28<sup>th</sup> August 1990
- **Languages Known:** English & Hindi
- **Address:** Indore, MP
- **Passport No.:** R6670314 | **Date of Expiry:** 30/01/2028
- **Driving License :** JH-15/2010/0013484 | **Date of Expiry :** 29 July 2030
- **Nationality :** Indian
- **No of dependency :** 3
- **marital status :** Married