SWAPNIL PANDE

Technical Lead | Solutions Architect | AI/ML Engineer

♀ Google AI Certified Leader | ★ Consistently High Performer at TCS

PROFESSIONAL SUMMARY

Technology Leader with **14+ years** of experience architecting enterprise-scale solutions and leading high-performing teams. Currently managing **30+ associates** at TCS, specializing in **IoT-based Supply Chain & Logistics Automation**. Proven expertise in **Spring Boot microservices architecture**, **AI/ML implementation**, and **modern full-stack development**. Successfully reduced Vehicle Turn Around Time by **70%** through innovative technical solutions.

Core Expertise: Enterprise Architecture | Team Leadership | AI/ML Integration | Spring Boot | React | IoT Solutions

TECHNICAL EXPERTISE

Architecture & Leadership

- Microservices Architecture with Spring Boot, Service Discovery, API Gateway
- **Team Leadership** (30+ associates) | Technical Mentoring | Solution Design
- **Cloud Platforms**: Google Cloud Platform (GCP), Vertex AI
- Enterprise Integration: REST/JMS, Message Queues, Token-based Authorization

AI/ML & Modern Technologies

- AI/ML Frameworks: Vertex AI, Gemini API, RAG (Retrieval-Augmented Generation)
- Frontend: React 19, HTML5, CSS3, JavaScript ES6+
- Backend: Spring Boot, Nest.js, Java, Node.js
- **Development Tools**: Cursor IDE, GitHub Copilot, Eclipse, Visual Studio Code

Data & Integration

- Databases: Oracle (9i-12c), PostgreSQL, MS SQL Server
- Analytics: ELK Stack (Elasticsearch, Logstash, Kibana)
- **Reporting**: Jasper Reports, Business Intelligence
- IoT & Sensors: Vehicle Tracking, Plant Automation, Supply Chain Monitoring

PROFESSIONAL EXPERIENCE

Assistant Consultant (Technical Lead/Architect)

Tata Consultancy Services Ltd., Nagpur | *March 2011 – Present*

Current Role: IoT Solutions Architect & Team Lead

January 2015 - Present

Leadership & Architecture:

- Lead a team of 32 associates across new implementations and enhancement projects
- **Design complete technical architecture** for IoT-based Supply Chain & Logistics solutions
- Architect Spring Boot microservices handling 200K+ daily transactions for thousands of concurrent users
- Implement service discovery, authorization mechanisms, and message queue architectures

Key Projects & Clients:

- Hindustan Zinc Ltd, Vedanta Aluminium, Birla Corporation Ltd
- **Technologies**: Spring Boot, React, JSF 2, PrimeFaces 6, JavaScript, Ajax, jQuery, JSON, Apache Tomcat
- Achievement: Reduced Vehicle Turn Around Time by 70% through automated tracking and validation systems

AI/ML Initiatives:

Developed L1 Support Chatbot using Gemini API with RAG-based document processing

- Built Exception Analysis Module integrated with ELK Stack and Gemini API for automated issue resolution
- Created multilingual chatbot improving customer support efficiency and user experience
- Deployed Vertex AI models (text and RAG models) for business process automation

Banking Solutions Developer & Team Lead

August 2011 - November 2014

Project: Audit Report Processing System (ARPS) for State Bank of India

- Led full-stack development of online application with comprehensive reporting module
- Technologies: J2EE (Struts 1.2), Oracle 10g, Jasper Reports, HTML, XML, JavaScript, jQuery, Ajax
- Delivered scalable and flexible system adaptable for multiple banking applications

Current Responsibilities:

- Client Interaction for requirements analysis and solution design
- **Performance Optimization** and coding standards implementation
- **Technical Documentation**: Approach Notes, Effort Estimations, User Manuals
- **Quality Assurance** ensuring high-quality deliverables within timelines
- **Knowledge Sharing** through regular technical training sessions

RECENT PROJECTS & INNOVATIONS

Manufacturing Plant Monitoring Portal

- Technology Stack: React 19, Spring Boot, REST APIs
- **Scope**: Real-time plant operations monitoring with interactive dashboards

Issue Tracker Portal

- Technology Stack: Nest.js, Express.js, Node.js
- **Features**: Automated issue categorization and resolution tracking

AI-Powered Support Systems

- **Gemini API Integration** for intelligent customer support
- RAG Implementation for document-based query resolution
- ELK Stack Analytics for predictive issue resolution

CERTIFICATIONS & ACHIEVEMENTS

Professional Certifications

- **6** Google AI Certified Leader
- Z TCS Contextual Master Certification

Awards & Recognition

- 7 Consecutive 'A' Band Performance ratings (2018-2024)
- Multiple Customer Recognition Awards
- Star of the Month & Star of the Quarter recipient
- **Technical Excellence Awards** within TCS organization

EDUCATION

Bachelor of Engineering (B.E.) | 2010

J.D.I.E.T. Engineering College, Yavatmal, Maharashtra

Aggregate: 64.4%

Higher Secondary Certificate (H.S.C.) | 2006

A.M.V.S College, Yavatmal, Maharashtra

Percentage: 79.9%

KEY ACHIEVEMENTS & METRICS

- **& Led 32-member technical team** across multiple client engagements
- Reduced Vehicle Turn Around Time by 70% through IoT automation
- Process 200K+ daily API transactions with high availability
- **Mentored 50+ junior developers** in modern technologies
- **X** Maintained 7-year consecutive 'A' performance rating
- **Implemented AI solutions** reducing manual support efforts by 40%

TECHNICAL SKILLS MATRIX

Category	Technologies	Experience
Programming Languages	Java, JavaScript, TypeScript, Python	14+ years
Frameworks	Spring Boot, React 19,, Nest.js	8+ years
Architecture	Microservices, REST APIs, Service Discovery	10+ years
AI/ML	Vertex AI, Gemini API, RAG, ELK Stack	2+ years
Databases	Oracle, PostgreSQL, MS SQL Server	14+ years
Cloud Platforms	Google Cloud Platform (GCP)	3+ years
Development Tools	Cursor IDE, GitHub Copilot, Eclipse, Git	5+ years

Available for Technical Lead and Solutions Architect roles preferably in Supply Chain and IoT domains