




Jitin Nair

AI Systems Architect & Instructional Design Specialist

Building Intelligent Systems That Learn, Adapt, and Execute

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Professional Profile

AI Systems Architect with 10+ years bridging instructional design and autonomous systems. Specialized in building multi-agent orchestration platforms, AI-enabled learning ecosystems, and production-grade automation systems. Proven track record of 200+ deployed AI agents, enterprise L&D programs reaching 50K+ learners, and \$140K+ in cost savings through intelligent automation. Unique combination of learning science expertise (ADDIE, Bloom's Taxonomy) and cutting-edge AI engineering (LangGraph, RAG, Vector Systems).



Core Competencies



Instructional Design & Learning Architecture

ADDIE Model & Agile L&DAI-Native Learning Design Video-Based Learning Production SCORM/xAPI Standards Learning Analytics &

AI & Agentic Systems

- Multi-Agent Orchestration (LangGraph, CrewAI)
- LLM Integration (Claude, GPT-4, Gemini)
- RAG & Vector Databases
- Model Context Protocols (MCP)

Full-Stack Development

- React & Next.js
- Python & FastAPI
- TypeScript
- PostgreSQL & TimescaleDB

Enterprise Automation

- Browser Automation (Playwright)
- Workflow Orchestration (n8n)
- CI/CD Pipeline Design
- Docker & Containerization



Professional Experience

AI Systems Architect

Independent Consultant

Mar 2025 - Present

Bangalore, India

- ►Architected and deployed 200+ autonomous AI agents across multi-agent orchestration platforms
- ►Built production-grade systems including autonomous trading engine (Predator), multi-agent governance platform (Reality-Check), and AI-

powered LMS (Smartslate)

- ▶Developed Model Context Protocol integrations enabling cross-agent tool sharing across 147 agent instances
- ▶Achieved 96% fleet coverage for truth-verification protocols across distributed agent networks

LangGraphPythonTimescaleDBClaudeGPT-4FastAPI

Instructional Designer

Moody's Ratings

Sep 2022 - Mar 2025

Bangalore, India

- ▶Led video-based learning development for global ratings agency, creating standardized templates and automated workflows
- ▶Built scalable production pipelines transforming how financial knowledge is disseminated across global teams
- ▶Reduced content production time by 60% through automation and template standardization
- ▶Developed interactive learning modules for complex financial concepts with 90%+ completion rates

Articulate StorylineVideo ProductionSCORMLMS AdministrationADDIE

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Professional Experience

Instructor Analyst → Senior Analyst

Accenture

Jan 2019 - Sep 2022

Bangalore, India

- ▶Promoted within 9 months for exceptional performance in learning & development
- ▶Led L&D for 50+ employees, creating video-based learning that reduced training time by 70%
- ▶Achieved 54% knowledge retention rate (industry average: 20-30%) through innovative learning design
- ▶Built MS Excel automation tool with 1,400+ lines of VBA code, saving ~\$140K in training costs
- ▶Trained 300+ employees across technical and soft skills programs

Excel VBAVideo ProductionGamificationAssessment DesignTraining Delivery

Senior Executive

247.ai

May 2015 - Dec 2017

Bangalore, India

- ▶Technical support specialist for US retail giant client (Electronic Arts)
- ▶QA automation for mobile applications across multiple platforms
- ▶Top performer for 3 consecutive months; identified for leadership track within 24 months
- ▶Trained new joiners on product knowledge and customer service protocols

QA TestingMobile AppsCustomer SupportTraining



Education

Bachelor of Commerce (B.Com)

Sindhi College of Commerce

2012 - 2015

- ▶ Built foundation in business administration and analytical thinking
- ▶ Self-taught programming during college years
- ▶ Developed first web applications

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Featured Projects

Smartslate AI-First Learning Platform



Lead Architect & Designer • Learning & Development

AI-native L&D platform with Human-in-the-Loop validation, automating discovery to delivery while maintaining quality through expert oversight.

7-stage contextual discovery questionnaire with AI analysis
Multi-provider AI integration (Claude, GPT-4, Perplexity)
500+ daily async background jobs for report generation
45-second average report generation time
React Supabase Claude 3.5 GPT-4o PostgreSQL Framer Motion

Predator Scalping System

Lead Architect • AI Systems

Autonomous XAU/USD trading engine deploying 5 specialized AI agents for regime detection, prediction, and sub-50ms execution.

<50ms execution latency (p99) 88% regime detection accuracy
24/7 continuous operation with 99.9% uptime
Real-time drift detection (PSI, ADWIN)
Python 3.13 LangGraph TimescaleDB Numba CCXT Redis

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Featured Projects

AI Agency Ops Platform

Lead Architect • AI Systems

Unified multi-agent orchestration platform managing 30+ specialized AI agents through unified context management and intelligent routing.

34+ production agents across 3 clusters 47 MCP-enabled cross-agent tools 34% cost savings through multi-LLM routing 350ms average response time
LangGraph FastAPI Redis MCP Claude Gemini

Reality-Check Governance System

Lead Architect • AI Governance

Distributed governance platform enforcing truth-only protocols across 147 AI agents, eliminating fictional data generation.

96% fleet coverage (141/147 agents) 3-minute full fleet policy rollout Zero active violations post-deployment Automated policy injection and audit logging
Bash Node.js Python YAML Audit Logging

RevOS Automotive Platform



Full-Stack Developer • Enterprise Software

Comprehensive automotive garage management platform digitizing workshop operations from job cards to inventory.

500+ monthly job cards processed 10K+ inventory items tracked 5K+ vehicle service histories maintained 99.5% platform uptime

Next.js 14TypeScriptSupabasePrismaTanStack Query



Technical Skills

AI/ML & LLMs

Expert

Claude SonnetGPT-4oGemini ProLangGraphRAG ArchitecturePrompt Engineering

Advanced

LangChainFine-tuningVector DBs (Pinecone, Weaviate)Chain-of-VerificationKnowledge Graphs

Instructional Design

Expert

ADDIE ModelVideo-Based LearningAgile for L&DLearning AnalyticsMicrolearning

Advanced

SCORM/xAPIH5PArticulate StorylineGamificationCompetency Frameworks

Full-Stack Development

Expert

ReactNext.jsTypeScriptPythonFastAPIPostgreSQL

Advanced

Node.jsGraphQLSupabasePrismaRedis

Automation & Infrastructure

Expert

Playwright Docker GitHub Actions Linux/Systemd

Advanced

Kubernetes Terraform n8n Temporal AWS/GCP



Languages

English • Native Malayalam • Native Hindi • Fluent Tamil •
Conversational Kannada • Conversational



Key Achievements

200+

AI Agents Deployed

\$140K+

Training Cost Savings

50K+

Learners Reached

70%

Training Time Reduction

54%

Knowledge Retention Rate

96%

Agent Compliance Coverage