

ARUN MISHRA

Head of Architecture | Builder, Fixer, Technical Founder's Partner

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WHAT I BRING

I have spent 16 years inside large enterprises fixing systems nobody wanted to touch and building platforms from scratch. Now I want to bring that same instinct — find what's broken, understand it completely, fix it, then build something better — to a company where the work has direct business impact and the team is small enough that ownership is real.

I have worked directly with CEOs and CTOs — not through layers of management — presenting technology strategy in business terms, not jargon. I understand that at a mid-size company, speed and standards have to coexist. I build process by showing the benefit first, bringing key people into confidence, and scaling from there. I do not need a large org behind me to deliver.

WHAT I CAN OWN FROM DAY ONE

- Your architecture — assess what exists, identify what's broken or unscalable, build the target-state roadmap in business terms your leadership can act on.
- Your hardest migration or modernization — I have turned red projects green, moved 820M+ records to cloud, and rebuilt pipelines that cut processing from 18 hours to 6 minutes. In production.
- Your engineering standards — if you have none, I will build them. If you have some, I will strengthen them without slowing you down.
- Your team — I mentor, I bring people along through technology change, and I make sure the team owns what we build together, not just me.
- Your CEO/CTO conversation — I translate complex architecture into business value. I have done this directly with founders and C-suite, not through a VP layer.

PROOF POINTS

- **Turned red to green solo:** Inherited a broken, undocumented, stalled post-merger data migration — no process, tribal knowledge in 1–2 people. Built the process from scratch, closed all open decisions.
- **18 hours → 6 minutes in production:** Redesigned enterprise event pipeline from scratch — bypassed non-scalable API bottleneck, implemented Kafka Connect source and sink architecture.
- \$300K annual infrastructure savings, 21K developer hours eliminated.
- **CEO-level engagement:** Worked directly with CEO and VP of Technology at Clarus Care — defined cloud-native architecture for AI-powered patient platform, presented roadmap in business value terms, no enterprise machine behind me.
- **Independent delivery:** Architected unified payments strategy for major financial institution across ACH, RTP, and wire — delivered target-state architecture and multi-phase roadmap as sole architect.
- **Hands-on builder:** Built ML fraud detection platform — architected system, built application, trained model. Not handed to a team. I opened the laptop.

PROFESSIONAL EXPERIENCE

Enterprise Architect, Senior Manager (IC) | Capital One

June 2025 – Present

Richmond, VA | Post-acquisition of Discover Financial Services

- Architecting cloud-native case management modernization on AWS — real-time platform increasing agent throughput and customer transparency.
- Designed and built ML fraud detection platform including model training pipeline, real-time LLM decision layer, and graph-based fraud ring detection. Alert volume 48K → 2K daily, investigation time 4.2 days → under 3 hours (pre-production, projected \$86M revenue recovery).

Expert Enterprise Architect | Discover Financial Services

March 2023 – June 2025

Remote | Acquired by Capital One, May 2025

- Rebuilt broken event streaming pipeline using Kafka Connect — went from non-scalable API (10–15 TPS) to production solution processing in 6 minutes vs 18 hours. \$300K annual savings.
- Led ITP data migration recovery — inherited stalled project, built process and standards from nothing, delivered results. Led 8 cross-functional teams through core banking cloud modernization. \$10M savings.

Enterprise Architect (Freelance) | Capco

Jan 2025 – May 2025

Remote | Independent Engagement — Payments Modernization

- Sole architect for unified ACH, RTP, and wire payments strategy across multiple acquired banks — delivered target-state architecture and multi-phase integration roadmap independently.

Enterprise Architect (Freelance) | Clarus Care

Feb 2025 – April 2025

Remote | Independent Engagement — Healthcare AI

- Partnered directly with CEO and VP of Technology — defined cloud-native AWS architecture for AI-powered patient communication platform, presented strategy in business value terms, delivered reference architectures and EHR interoperability design via Iguana HL7.

Lead Software Engineer / IC Architect (Manager) | Capital One

Jan 2022 – March 2023

Master Software Engineer / Solution Architect | Capital One

2018 – 2021

Richmond, VA

- Architected and modernized payment platforms — instore, web, mobile, third-party — for Walmart, Saks, Kohl's, Menards. 40% API improvement, 820M+ record cloud migration, deployment 14 hrs → 1 hr.
- Built DRM document management system from scratch replacing undocumented black box — case closure up 78%. \$20M savings. Mentored 50+ developers.

Senior Software Engineer / Tech Lead | Capital One

2016 – 2018

Richmond, VA

- Led Small Business Credit Card cloud-native transformation — 40% increase in card applications, \$8M annual savings, 200K+ developer hours saved.

Senior Software Developer / Tech Lead | Egen Solutions

2012 – 2016

Chicago, IL | Healthcare, Government, IoT

- Led legacy modernization for CGI, Affordable Care Health, U.S. Department of the Interior, and GE Healthcare.

CORE SKILLS

Architecture & Build: Cloud-Native AWS, Event-Driven Architecture, Kafka, Microservices, API Design, Data Migration, Real-Time Payments, HL7/EHR Integration, Target-State Road mapping
Engineering: Java, Spring, Python, CI/CD, DevOps, ML Model Development (design to build), PCI-DSS, HIPAA, SOX
AI (Practical): LLM-assisted architecture acceleration, ML fraud detection (architected + built), POC development, AWS Bedrock, Claude
Certifications: AWS (9x) • Google Cloud Professional Architect • Google Generative AI Leader • Azure Developer Associate • ISC2 Cybersecurity • Claude Certified Architect • Claude Certified Architect Professional

EDUCATION

M.S. Computer Science — University of Houston, TX

2010 – 2012

B.Tech. Computer Science — UPTU, India

2005 – 2009