

PRABHAT RANJAN

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HEAD OF TECHNOLOGY / IT & AI TRANSFORMATION

Driving global technology modernization, AI innovation, and operational excellence across enterprise and public sector ecosystems

Visionary technology leader with 17+ years of experience driving enterprise-wide IT, software engineering, and AI transformation initiatives across APAC, EMEA, and North America. Proven record of leading global infrastructure modernization, cloud migration, cybersecurity governance, and digital transformation programs. Adept at unifying IT operations, product engineering, and AI strategy to deliver scalable, compliant, and high-performance technology ecosystems. Known for bridging deep technical expertise with business acumen to deliver secure, intelligent, and data-driven enterprise platforms.

AREAS OF EXCELLENCE

Global IT Strategy & Governance | Cloud Infrastructure (Azure, AWS) | Cybersecurity & Compliance (SOC2, ISO27001, HIPAA, GDPR)

Enterprise Architecture | AI & Data-Driven Transformation | ERP/CRM Modernization | Vendor & Budget Management

Digital Transformation Leadership | Multi-Region Operations | DevOps & MLOps Implementation | Team & Culture Building

PROFESSIONAL EXPERIENCE

Head of Engineering & Product | KeyReply | Singapore | 2021 – Present

Leading the end-to-end transformation of enterprise and public sector platforms through integrated IT, AI, and cloud modernization strategies.

- Spearheaded the design and implementation of a multi-region AI-enabled technology ecosystem combining legacy modernization, AI services, and secure cloud infrastructure across Azure and AWS.
- Defined global IT governance frameworks covering cybersecurity, data protection, identity management (Entra ID), and compliance certifications (SOC2, ISO27001, HIPAA) – enabling public sector readiness across APAC.
- Led cross-functional teams across Singapore, India, and EMEA, standardizing DevOps and IT operations to achieve 70% productivity improvement and 30% cost efficiency.

- Architected cloud-native and hybrid systems ensuring 24/7 reliability, with centralized observability (Grafana, Sentry) and automated incident response improving uptime to 99.95%.
- Drove digital transformation roadmaps integrating AI, automation, and analytics – including multi-agent AI frameworks, omnichannel automation, and enterprise API ecosystems.
- Partnered with C-suite executives and government CIOs to align infrastructure, cybersecurity, and AI modernization with business objectives and compliance standards.

Software Engineering Manager / Vice President, Testing Strategy | Crossover for Work (TechSangrah) | 2015 – 2021 | Singapore / Global

Oversaw enterprise IT operations, SaaS modernization, and global delivery optimization across 80+ teams spanning North America, EMEA, and APAC.

- Managed annual IT and engineering budgets exceeding US\$5M, driving global cost optimization initiatives and vendor strategy alignment.
- Achieved 99.9% uptime and 60% AWS cost reduction through architecture simplification, Infrastructure-as-Code, and proactive monitoring.
- Implemented enterprise-wide automation and DevOps pipelines, resulting in a 70% increase in throughput and 40% reduction in operational costs.
- Directed integration of multiple global product acquisitions into standardized support models ensuring operational compliance and continuity.
- Led digital initiatives integrating cloud, AI-based testing frameworks, and predictive analytics for IT performance and risk management.

Founder & CEO | Mavuno Technologies | India | 2012 – 2015

Founded and scaled an AI and automation company delivering enterprise-grade IT solutions.

- Developed automation testing software leveraging computer vision and analytics, adopted by enterprise clients for IT process optimization.
- Built and managed a full-stack engineering and IT operations team responsible for deployment, security, and scalability.

Senior Technical Consulting Manager | gTeam FZ LLC

- Managed 80+ engineers across 11 teams delivering IT infrastructure and automation solutions for global enterprises.
- Reduced IT operational costs by 70% while improving SLA adherence and scalability.

Technical Account Manager | Trilogy / Vreign Technologies | 2009 – 2012

- Oversaw enterprise system delivery for clients across APAC, doubling operational efficiency using Lean and Kaizen practices.

Software Engineer | Trilogy / SNS Technologies | 2008 – 2009

- Developed and supported rule-based enterprise systems using Lisp, C++, and Java.

EDUCATION

National University of Singapore (NUS) – Master of Computing, Computer Science (AI focused), CGPA: 4.7/5 (2021–2023)

Birla Institute of Technology and Science (BITS), Pilani – B.E. (Hons) Computer Science, CGPA: 8.36/10 (2004–2008)

CERTIFICATIONS

- Professional Scrum Master (PSM1) – Scrum.org, Score: 98.8%
- Technological Innovation in Precision Medicine – 2024

TECHNICAL & DOMAIN EXPERTISE

Cloud: Azure, AWS, GCP | Infrastructure: Kubernetes, MSSQL, App Services, Storage, Cognitive Services

Security: SOC2, ISO27001, HIPAA, GDPR | DevOps: Jenkins, GitHub Actions, Grafana, Docker, Terraform

AI & Data: RAG Pipelines, LLM Integration, Vector Search, Data Lakes, ETL, Analytics

Enterprise Systems: ERP/CRM, HRIS, Identity & Access Management | Collaboration: JIRA, Confluence, ServiceNow

GLOBAL IMPACT SNAPSHOT

- 17+ years leading IT and AI transformation across enterprise and public sector clients including GovTech, MOM, SingHealth, and AIA.
- Delivered cloud modernization, cybersecurity governance, and AI integration strategies across multi-region environments.
- Known for hands-on technical leadership, bridging enterprise infrastructure with next-generation AI-driven transformation.

CAREER GOAL

To lead global IT transformation and innovation initiatives that integrate secure, scalable infrastructure with intelligent automation and AI-driven business outcomes.