

# KARUNAKAR KATTA

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## CAREER SUMMARY

- A seasoned IT professional with expertise in enterprise solutioning across applications, infrastructure, data, cloud, and AI.
- Demonstrated success as a Database SME and Technical Architecture Delivery Manager, with deep experience as an Enterprise and Cloud Architect in designing and delivering on-premises and cloud-native solutions.
- Industry experiences spans Banking, Financial Services, Insurance, Aviation, Telco, Gov Agencies and IT Services.
- Successfully led greenfield cloud initiatives, large-scale transformation programs, and mission-critical project deliveries.
- Skilled in infrastructure engineering, Agile delivery, Project Management and presales.
- Adept at working both as an individual contributor and leading technical operations teams and architecture groups.

## CERTIFICATION

- AWS Solution Architect Professional
- AWS Security Specialist
- Google Cloud Engineer
- Azure Fundamentals
- Azure Data Fundamentals
- Professional Scrum Master I
- Aviatrix Certified Engineer
- ITIL Foundation
- Cybersecurity Threat Management - Institute of Banking & Finance (IBF), Singapore
- Certification in Business Analysis for agile practitioners
- Data Driven Decision Making
- Lean IT
- AWS Solution Architect Professional
- AWS Security Specialist
- Google Cloud Engineer
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- Lean IT

## EXPERTISE

Enterprise Solutioning | Cloud Architecture (AWS, GCP, Azure) | Data Architecture | AI Solutions | Database Management (RDBMS, NoSQL) | Technical Architecture Delivery | Infrastructure Engineering (Containerization,

Virtualization) | DevOps & CI/CD | Agile Methodologies | Project Management | Presales | Cybersecurity Frameworks | IT Governance | Service Management (Incident, Problem, Change) | Big Data Technologies | Operating Systems (Linux, UNIX, Windows) | Middleware Administration

## TECHNICAL SKILLS

AWS | GCP | Azure Cloud | D365 | Ansible | Terraform | Git | Jira | Nginx | Codecommit | JBoss | Jenkins | Python | Shell Scripting | PL/SQL | OracleRAC | Data guard | PostgreSQL | MySQL InnoDB Cluster | MSSQ Cluster | MariaDB Multimaster | Master-Slave | MaxScale | DB2 LUW | Sybase | MS SQL | Aurora | DynamoDB | MongoDB | HBase | Hive | Linux (RHEL, CentOS, Debian, Ubuntu) | UNIX (HP, AIX) | Solaris | Windows | Web Logic | Apache | PeopleSoft Administration (PeopleTools 8.x, Web Server, Tuxedo Application Server, Process Scheduler) | Docker | Kubernetes | OCP | Virtual Machine | Nutanix | Apache Hadoop | Hortonworks | Cloudera | Precise | Foglight | Imperva | ServiceNow | Autosys JIL | Ganglia | data dog | Splunk | ArchiMate | Hashi Corp Vault | Snowflake | Incident Management | Problem Management | Change Management

## PROFESSIONAL EXPERIENCE

### Cloud Architect Manager | Income Insurance Ltd | Singapore

Apr '22 – Present

Extensive experience architecting and delivering hybrid, public, and private cloud solutions, data platform, AI solutions to support large-scale digital transformation programs.

- Partnered with cross-functional teams across business and IT to streamline processes, ensuring alignment with enterprise strategy and operational consistency.
- Evaluated vendor technologies and led modernization initiatives to transform legacy systems into future-ready, resilient digital platforms.
- Designed enterprise architecture blueprints for mission-critical core applications, aligning with TOGAF frameworks and strategic target-state architectures.
- Defined and communicated clear architecture strategies and roadmaps that supported long-term business goals and improved technology alignment.
- Developed and enforced cloud and cybersecurity frameworks, integrating Zero Trust architecture principles and regulatory compliance controls.
- Conducted comprehensive technology architecture reviews to ensure alignment with business outcomes, scalability, and risk posture.
- Collaborated closely with sponsors to co-develop strategic initiatives, streamline architectural governance, and enhance operational efficiency.
- Developed and maintained enterprise architecture strategies, reference architectures, and standards to guide transformation efforts and governance.
- Designed and implemented enterprise-wide IT governance frameworks, policies, and procedures that align IT with business strategy, manage risks, and ensure compliance with industry and regulatory standards.
- Led the identification and resolution of architecture gaps by formulating actionable improvement plans and driving continuous optimization efforts.
- Managed cross-functional delivery teams and strategic vendor partnerships to ensure successful execution of complex architecture programs.
- Directed the successful execution of enterprise architecture and technical delivery across multiple complex transformation initiatives.
- Cloud infrastructure deployed (IaC), designed pipelines, migrated applications & databases.
- Integrated upstream and downstream applications.

### Tech Arch Delivery Manager | Accenture | Singapore

Nov '20 – Apr '22

Led major technical decisions, designed and delivered cloud architectures across AWS, Azure including private and hybrid solutions.

- Designed & Delivered solutions for multiple clients.

- Implemented target-state infrastructure aligned with enterprise vision.
- Deployed cloud solutions using Azure, AWS, and GCP.
- Implemented diverse cloud services, including Azure AD, AKS, Azure Functions, Azure SQL database, cosmos DB, Azure data Factory, Synapse Analytics, and security tools.
- Led a blockchain project, implemented AWS infrastructure (EC2, EKS, ELB, Route 53, S3, Transit Gateway), Hashi Corp Vault with Terraform. Designed cloud migration frameworks and future-proof consumer application architectures.
- Designed architectural solutions during pre-sales to align with client needs.
- Oversaw technical architecture team, serving as the primary client interface for solution delivery for SingTel for Field Services project implementation in azure and D365.
- Led application solutions and DR for field services project.

**DevSecOps, Platform & Cloud Architect | Singapore Airlines Ltd | Singapore**

*Feb '17 – Nov '20*

Designed architecture and deployed infrastructure in private, public and Hybrid cloud environments, including application migration to AWS.

- Reviewed the architectures and implemented on-premises, public and hybrid cloud Infra.
- Part of the architectural review board reviewed architectures and drive the right solution for infrastructure and applications for public, private cloud and hybrid cloud. optimized designs for performance improvements.
- Led application and database migrations from on-premises environments to AWS, driving database and application re-platforming for cost efficiency.
- Implemented AWS security best practices to safeguard cloud resources.
- Established infrastructure standards, designs, and implementations, collaborating with InfoSec to enhance application security.
- Automated infrastructure provisioning using Infrastructure as Code (IaC) with CloudFormation and implemented CI/CD pipelines using Code Commit and Code Build.
- Facilitated Scrum ceremonies and managed Kanban boards as a key agile practitioner.
- Developed and implemented technical solutions for Disaster Recovery (DR) and Business Continuity Management (BCM) for on-premises and cloud infrastructure, including database services. Managed software end-of-service refreshes and hardware upgrades.
- Managed internal and external audits, software licenses, and end-to-end IT projects.
- Cultivated strong relationships with technology vendors and managed technical teams.
- Provided technical assistance and documentation for RFPs and vendor evaluations.
- Created Technology roadmaps and provided strategic and tactical direction to the product teams.
- Led internal and vendor teams in Infrastructure (servers, storage, Platform, enterprise monitoring) space.

**Architect (DBA Specialist) | Singapore Telecommunications Ltd | Singapore**

*Sep '16 – Feb '17*

Architected the solution for a complex billing project.

- Developed and implemented Disaster Recovery (DR) and Business Continuity Management (BCM) solutions for database services.
- Managed vendor relationships, incident response, and change/problem management processes. Optimized database performance and implemented security configurations to meet business and information security requirements.
- Executed database migrations and upgrades, including 11g to 12c RAC.

**GSC& Regional Database Lead, Architect, Delivery Lead | Barclays Capital Services Ltd | Singapore**

*Jan '08 – Aug '16*

Held multiple roles including GSC& Regional Database Lead, Architect, Delivery Lead, Infra/Operations Manager, and Transition Manager. Planned, scheduled, and executed infrastructure enhancements, security patching, and

database upgrades across development, test, staging, and production environments globally (APAC/EMEA/AMER) for Oracle 11g and 12c, including leading DBA rollout tasks.

- Managed multiple data centre power-down events and business continuity/disaster recovery (BCM/DR) tests for Oracle and SQL Server services.
- Delivered performance optimization solutions for 'Build the Bank' (development) and 'Run the Bank' (operations) teams. Designed and implemented scalable, secure, and high-performance database infrastructure (Oracle 11g/12c) to support critical business apps.
- Led problem management calls and adhered to demand, capacity, change, knowledge, and incident management processes, including process evaluation.
- Developed KB documentation and collaborated with application teams on archival strategies. Automated routine database tasks (shell scripting, PL/SQL) for Market Risk databases, resulting in cost savings, storage optimization, and reduced downtime.
- Led and drove global projects, including 'Blackout' and OEM rollout initiatives.
- Designed technical architecture proof-of-concepts for big data adoption (Apache Hadoop, Hortonworks, Cloudera).
- Designed data, infrastructure, application architectures for Market Risk applications.
- Led the design and implementation of Market Risk, compliance and consumer applications and managed the infrastructure architectures, CAPEX and OPEX.
- Maintained service availability by resolving incidents within SLA, identifying root causes of critical issues, and leading major incident response.
- Contributed to financial planning by collaborating on infrastructure capital and operational expenditure (CAPEX/OPEX).
- Directed and managed a technical team of 30 FTEs, ensuring efficient operations.
- Managed vendor relationships and led project/service transitions for Level 1 (L1) support teams across platform, web, database, storage, enterprise tools, and network.

#### **DB SME | Encora Technologies Pte Ltd; Client: JPMorgan Chase Bank | Singapore**

*May '07 – Dec '07*

Designed database architectures, Built and implemented Oracle 10g and Sybase 12.x databases with Disaster Recovery (DR) setups on Solaris and Linux platforms.

- Led database upgrade projects, and migrations Oracle 9i to 10g and Sybase 12 to 12.5.
- Developed and implemented shell scripts for Oracle and Sybase database management, capacity planning for Oracle, SQL Server 2000, and Sybase, and provided 24/7 production support for Oracle, Sybase, and PeopleSoft administration.

#### **Sr. IT Consultant | KEPPEL Shipyard Ltd | Singapore**

*May '06 – Feb '07*

Managed Data Center operations like Server/storage/network/Hardware & software updates, Application Management.

- Resolved escalated issues for Keppel's in-house applications and PeopleSoft HRMS.
- Performed PeopleSoft database cloning and Oracle database tuning (memory, SQL).
- Administered PeopleSoft application servers, web servers, and process schedulers, managed PeopleSoft project migrations, and automated routine tasks.
- Managed data movement and application design using Data Mover and Application Designer. Applied PeopleSoft bundles and patches, including regional and tax updates.

#### **Software Consultant | Encora Technologies Pte Ltd; Client: NCS Pte Ltd | Singapore**

*Aug '05 – Apr '06*

Managed Data Center operations like Server/storage/network/Hardware & software updates, Application Management.

- Applied PeopleSoft application patches, resolved incidents within SLA based on priority.
- Automated Oracle DB, SQL Server user management, and PeopleSoft apps management using shell scripts.
- Managed PeopleSoft application servers, web servers, process schedulers, and performed database cloning and refreshes.
- Applied PeopleSoft bundles, patches, and executed project migrations and upgrades.

## EDUCATION

Bachelor of Business Administration | Business Administration | Pondicherry University, India  
Diploma | Computer Science & Engineering | Board of Technical Education, India