



ROLE PROFILE

Technical Architect

Why do we have this role?

Resonate specialises in providing mission critical systems and data science led solutions, primarily in the transport industry. As an Architect you will be responsible for contributing to our existing technology, and for overseeing the design and delivery of new services built on top and alongside them.

Working with our development and delivery teams you will help translate our Business Technology and Products Strategy into solutions for our diverse client base in UK and International Rail and Public Transport sectors and will be an evangelist for modern cloud architecture; knowledgeable about current developments in cloud technology and architectural practice, and identifying appropriate opportunities for deployment.

What are the key objectives?

- Ensure compliance with defined strategy and architecture, and highlight and assess impact of deviations
- Ensure good design principles are maintained so that non-functional requirements such as performance, scalability, availability, reliability and security are appropriately addressed
- Communicate complex IT architecture in business terms to internal and external decision makers, engaging with them to explain technical drivers and how such solutions/strategies address their current and future needs
- Mentor our Technical Architect resources, embedding the technical architecture strategy in their thinking and delivery, and encourage collaborative sharing of best practices and design patterns throughout the development team
- Review the technology landscape to bring in new ideas, support and encourage innovation - ongoing appraisal of developments in technology and application systems and assess how these will impact our products, business and architecture strategy
- Accurately estimate packages of work and assist with bids for new work
- Build business cases for new technology implementations and discuss with the Executive Board for approval where necessary

Top Internal Relationships

1. Solutions Strategy Director and Solution Delivery Director
2. Software Development Director
3. Technical Architects and Project Realisation
4. Sales and Bidding
5. Leadership Team (including the Executive Board) and Clients/End Users

Person Requirements

Profile

- Recent commercial experience in deploying production workloads in Amazon Web Services (AWS)
- AWS Technical Architect – Associate certification or equivalent experience





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- Solid experience needed in:
 - developing software using Java
 - using automated deployment and Continuous Integration tools , e.g. Ansible
 - developing software using modern JavaScript technology, e.g. NodeJS, Angular
 - architecting software using Microservices / Twelve Factor App / Immutable software patterns
 - Open Source software in commercial settings
- Experience/working knowledge in the following areas would be really useful:
 - Modern open source RDBMS (MySQL, PostgreSQL, etc.)
 - NOSQL database
 - Networking (protocols, architectures, topologies)
 - Using queuing technologies (e.g. MQTT)
 - Public and private cloud environments
 - High volume messaging and data streaming
 - Big data analytics
 - Building scalable and extensible platforms using services and Microservices

Competencies

- Be open to, and knowledgeable on, the relative merits of a wide range of technologies and solutions to ensure the right fit is always achieved
- Must have excellent communication skills (listening, understanding and conveying)
- Strong leadership skills, with multiple modes of managing through probing questioning, challenging to support
- Significant background in hands-on Architect roles and experience in leading and shaping architecture resources, capabilities and strategy

