



Make
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POSITION DESCRIPTION

Lead Integration Solution Architect

Faculty/Division

Classification Level

Hours & Span (Category)

Position number

Shiftwork status

Allowances

On call arrangements

Original document creation

Division of Operations

Professional TFR

G - Administrative, Clerical, Computing, Professional & Research Staff

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NOT SHIFTWORKER

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1 June 2024

Position Summary

The Lead Integration Solution Architect role is responsible for the development of target state architecture and the delivery of seamless integration of various systems for specific business or technology domains within UNSW IT. The role will lead the development of strategies, solutions, patterns and standards to guide the delivery of solutions with these domains.

The position will report to the Head of Integration and has no direct reports.

Accountabilities

Specific accountabilities for this role include:

- Develop integration strategies and end-to-end architectures to facilitate seamless connections within enterprise environments, including multi-cloud and hybrid cloud environments.
- Design, implement, and manage integration solutions across multi-cloud and hybrid cloud environments, considering security, scalability, and performance.
- Define and enforce integration patterns, standards, methodologies and best practices.
- Design modern integration solutions and patterns such as APIs, event-driven architectures, serverless computing, API gateways, Web Service interfaces, integration logic (orchestration, transformation) in the Microsoft Azure Platform and microservices-based solutions.
- Lead and mentor development teams in the design and implementation of integration solutions, ensuring adherence to architectural principles.

- Engage with stakeholders to translate requirements and gain buy-in for integration target states and roadmaps.
- Assist in project planning, estimation, and resource allocation for integration projects.
- Create and maintain detailed documentation for integration architectures, designs, and implementations, including diagrams and technical specifications.
- Continuously evaluate and optimize existing integration solutions to improve efficiency, performance, and cost-effectiveness.
- Work closely with other enterprise architects, solution architects, and technical teams to ensure cohesive and integrated architecture across the organization
- Clearly articulate integration strategies, designs, and benefits to both technical and non-technical stakeholders.
- Stay updated on industry trends and best practices related to contemporary integration styles.
- Lead and execute the Architectural & Security governance processes for new solution designs (such as Architecture Working Group, Architecture Review Board, Cybersecurity Assessment)
- Align with and actively demonstrate the [UNSW Values in Action: Our Behaviours](#) and the [UNSW Code of Conduct](#).
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- Tertiary qualifications in IT or related discipline together with 7+ years' experience in software development using Cloud architectures and middleware components.
- Extensive experience designing and implementing solutions using Azure integration services (API Management Gateway, Event Grid, Logic Apps, Service Bus, Function Apps) as well as Azure data platform (Data Factory, SQL, Synapse, Data Lake, Databricks, PowerBI)
- API development using REST/JSON, SOAP/XML, Web service with a strong understanding of security and privacy controls for applications and APIs
- Experience with Dev Ops and CI/CD tools.
- Experience defining and managing an integration design practice including integration patterns, register, and system integration landscape diagrams
- Comprehensive analytical and problem-solving skills and proven capacity to exercise initiative, flexibility and to be proactive in development of robust solutions to problems.
- Advanced written and verbal communication skills, with a high level of attention to detail for deliverables produced.
- Demonstrated success working effectively and collaboratively on initiatives with a range of people at different levels within an organisation.
- Strong knowledge of system testing and software quality assurance practices and methodologies as applied to integrated solutions.
- Excellent time management skills, with a demonstrated ability to respond to changing priorities, manage multiple tasks and meet competing deadlines by using judgement and initiative.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

- Verification of qualifications

About this document

This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.