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# Software Architect

<b>Business Unit:</b>	<b>Technology</b>
<b>Reporting to:</b>	<b>Chief Technology Officer</b>
<b>Direct Reports:</b>	<b>None</b>
<b>Date Created:</b>	<b>November 2018</b>

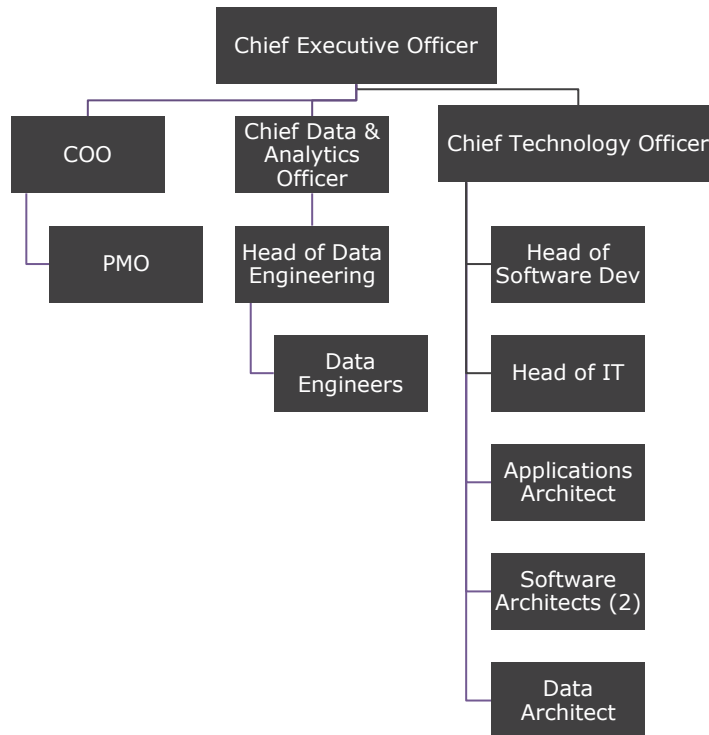
## Purpose of the position

The Software Architect is a key technical leadership position within Loyalty NZ Limited (LNZL). The role is accountable for providing Solution Architectural definition and leadership for technology and platform solutions for LNZL by drawing upon the relevant internal expertise, external partners and service providers.

Specifically, the role is critical to:

1. Ensure accuracy and completeness (fit for purpose) of the solution architecture by addressing the concerns of the Chief Technology Officer (CTO), Applications and Data Architects, Product Managers and other stakeholders.
2. Maintain relationships with the CTO, Product Managers and other architectural stakeholders to gather and articulate the technical vision and to produce Solution architectural plans for realizing it.
3. Oversee the Technical delivery to ensure that the Solution architectural design is adhered to and not compromised.
4. To provide the escalation point for technology implementation teams for addressing technical issues, concerns and constraints that are uncovered during project delivery and operations.
5. Continuously review Software architecture principles, guidelines, tools and technologies for appropriateness and completeness and communicating these to stakeholders and technical delivery teams.

The role will have strong working relationships with Loyalty NZ's CTO, Head of Software Development, Head of IT, Data Warehouse Manager, Data Engineers, Data Analysts and Product Managers/Owners to ensure that Platforms and Products are developed in accordance to defined principles and in accordance with our strategic plan.



## Key Responsibilities

1. Understand the Strategy, Strategic Plan, Platform Plan, Client Plan, Customer Plan and their related product and platform requirements.
  - Participate in the discovery of and assist in the shaping of requirements.
  - Assist in ensuring the requirements align to the plans.
  - Understand and lead the definition of the Solution Design and how it relates to other artefacts.
  - Develop, manage and communicate the architectural roadmaps that link the plans together.
2. Develop the Solution architecture.
  - Responsible for creating the most optimal software design that can scale and perform in a direct to consumer environment.
  - Understand and lead the definition of the Technical Solution architecture specifications for delivery.
  - Recommend what architectural components should be developed in-house or integrated with 3rd party services.
  - Engage with key stakeholders to ensure the Solution Architecture is fit for purpose. This includes the product Owners, Software Development Team, Data Engineering Team and Infrastructure Team.
  - Through collaboration, represent the organization view and be the authoritative representative of the Solution architecture through a communicative approach.
  - Drive best in class Software design, Development and Deployment techniques.

3. Communicate the Solution architecture
  - Articulate the Solution architecture specifications in varying forms to others, including Technical Delivery Teams and, where appropriate, non-Technical teams.
  - Engage with the Software Development team, Data Engineering Team and infrastructure team to ensure the architecture has full coverage in its contributions.
  - Translate the high-level architecture to software design that delivery teams can code to.
  - Be the bridge between Business Strategy/Enterprise Architecture and Delivery, and also act as a bridge between Delivery and Operations.
4. Support the Technical Delivery Team during Build
  - Engage technical delivery teams during the development build to ensure the defined solution architecture is not compromised.
  - Act as a guide/mentor to all the delivery teams and drive software architecture and software design across delivery workstreams.
  - Escalate any issues to the CTO and Product Manager where the defined solution architecture is likely to be compromised and work with the CTO, Product Manager and Technical Team to resolve.
  - Ensure that all technical delivery teams members are informed of the defined solution architecture regardless of whether they are involved in the product being developed or not.
5. Demonstrates the behaviour and responsibilities required of a technical leadership role within LNZN.
  - Adhere to corporate governance legislation and requirements, together with company policies

## Health & Safety

All of our people have a responsibility for their own and others safety and wellbeing. This includes following all safety and wellbeing procedures and instructions, including reporting hazards, incidents and accidents and participating in safety and wellbeing initiatives and programmes as required.

## The Loyalty Way

1. Focuses on and contributes towards continuous improvements within the workplace through improving activities and processes to make things Easier, Better, Faster and Cheaper.
2. Contributes towards, and promotes, The Loyalty Way, LNZN's values and the achievement of our desired work environment; specifically, an environment that stimulates individual, team and organisational growth and achievements, and encourages our people to think and behave in ways that achieve their goals through co-operative efforts.

3. Establishes and maintains effective relationships:
  - Develops and fosters good proactive working relationships with all internal and external contacts.
  - Ensures suppliers of goods and services conform to the standards of business ethics adopted by LNZN.
  - Operates a methodical round of contacts with other business collaborators to share market and other information of mutual interest.
4. Leads and/or contributes to specific Fly Buys projects.
5. Undertakes additional responsibilities and activities, as and when requested and as mutually agreed with your leader.

## Physical demands of the role

This is not a physically demanding role

## Most challenging parts of the role

- The person will need to be involved in multiple projects to varying degrees most of the time and be able to effectively balance workload and prioritization across projects.
- The person will need to be able to adapt language and style to suit audience. Taking the team along for the journey is a key part of this role.
- Understanding the Technology vision, the business strategy and the product roadmap and being able to balance all of this to achieve optimal delivery to market, in terms of capability, cost and speed.

## Key Functional Relationships

- Internal:
- Reports to the CTO.
  - Provides Solution architectural design and plans to technical delivery and Product teams
  - Collaborates and liaises with the other architects, Technical Delivery, Security and Product Teams.
  - Must have a collaborative and constructive working relationship with every other LNZN function and staff member.
- External:
- Loyalty Clients
  - Loyalty Business Partners
  - Other external Contractors and Suppliers engaged from time to time, and other businesses

## Working environment

1. Open plan layout and moderate amount of noise that goes with it
2. Very little if no travel required
3. Standard office equipment

## Delegations of Authority

Capital Expenditure:	\$0.00
Operational Expenditure:	\$0.00
Authorisation to Hire:	N/A
Authorisation to sign Contracts:	N/A

## Responsible for:

Number of Staff:	N/A
Budget:	\$0.00
Revenue:	\$0.00

## Appraisal and Performance Criteria

Formal appraisal will occur at least annually or more frequently when performance plans are re-negotiated. Performance will be measured against the performance plan negotiated at the beginning of the reporting period and against the other responsibilities identified above.

This job is being carried out successfully when all responsibilities are being met.

## Person specifications

### Qualifications

Essential: Relevant qualifications in IT / computer science

### Experience & Knowledge

- Essential:
- 10+ years of Software Engineering experience building scalable, high-performance systems in a direct-to-consumer Business
  - 10+ years of experience working with open source platforms, API development, REST, Unix/Linux, Java, Ruby, Node.JS, PostgreSQL and NoSQL Databases
  - 5+ years' experience leading small to medium sized software engineering teams in an Agile/Scrum environment
  - 4+ years' experience leading platform development using microservices in AWS
  - 5+ years hands on experience as a full stack developer at all tiers from front end UI to back end data store
  - Successful track record of developing high quality software products and shipping production ready software on schedule
  - A SME for platform development in AWS

- Understanding of open source development, tools and technologies.
- Understanding of various database technologies.
- Familiar with architecture patterns and can demonstrate use of patterns.
- Proven ability to communicate and work with technical teams to delivery of the defined architecture
- Proven ability to translate complex and technical information into information easily understood by non-technical staff and clients

Preferred:

- Experience in architectural roles.
- Understanding of Loyalty business concepts.
- Strong Business and communication skills

## Skills

The ideal appointee should have a high level of the following skills:

- Accomplished team player with a desire to work hard, get along with others and have fun.
- Interpersonal skills and the ability to negotiate and influence.
- Project management skills and the ability to meet deadlines.
- Ability to manage a heavy workload.
- Analytical, conceptual, problem solving, decisiveness and strategic thinking.
- Team-oriented and collaborative approach.
- A good communicator and able to articulate complex solutions easily to a variety of audiences, both internal and external.
- Ability to motivate the team and bring them along on the journey.

## Personal Attributes

The ideal appointee should be able to demonstrate:

- Cares about quality and fit for purpose solutions
- Accepts responsibility for the delivered solution
- A passion for excellence and a commitment to high standards.
- Integrity, loyalty to the organisation and a commitment to organisational objectives.
- A genuine customer service focus, both internal and external.
- A proactive and open minded consultative approach.
- Initiative, judgement and ability to creatively solve problems.
- Be detail conscious.
- Be a self-starter with the ability to self-manage.
- Ability to work under pressure with an achievement focus.
- Enthusiasm, a thirst for learning and self-development.