Daniel Reed

Solutions Architect

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Summary

Solutions architect with eight years in application engineering and architecture. Designs customer portals and service integrations using AWS, Java and PostgreSQL. Turns access, recovery and support requirements into documented design decisions, prototypes and delivery plans.

Experience

Solutions Architect, Example Cedar Technology Services — Jun 2021 - Present

Bristol, United Kingdom

- Designed a customer portal for a regional distributor, separating a React interface, Java APIs and an RDS PostgreSQL database with role-based access for branch and head-office users.
- Compared ECS Fargate and an EC2-based deployment against weekday demand, overnight imports and the support team's operating capacity; recommended Fargate and documented its cost assumptions.
- Prototyped the inventory integration and found the supplier API could not support a full refresh at peak times; introduced queued updates, retry limits and a daily reconciliation step.
- Defined backup and recovery acceptance criteria with the operations owner, then coordinated a staging restore exercise before launch.
- Maintained architecture decisions and interface contracts across three delivery teams, assigning owners to unresolved data-access and rollout risks.

Software Engineer, Example Cedar Technology Services — Jul 2018 - May 2021

Bristol, United Kingdom

- Built Java REST endpoints for order tracking and tested authentication, pagination and failure responses with the QA team.
- Reworked a PostgreSQL query after inspecting its execution plan, checking both response time and result consistency on a staging copy.
- Prepared deployment and rollback notes and joined the support handover for the customer portal.

Education

BSc Computer Science — 2014 - 2018

Example Rivergate Institute

Skills

Technical: AWS ECS Fargate, RDS PostgreSQL, Java, REST APIs, Queue-based integrations

Architecture: Requirements workshops, Architecture decision records, Workload modelling, Recovery planning

Delivery: Interface contracts, Prototype evaluation, Operational handovers, Risk tracking

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