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Revolutionizing Data Management at Netflix: Harnessing Data Abstractions for Scalable, Reliable and Flexible Database Solutions

Session

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Speaker



Vidhya Arvind

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Description

At Netflix, managing data for numerous applications at massive scale presents unique challenges. Each application often has distinct requirements for databases, leading to potential chaos with thousands of databases to provision, manage, and scale. The traditional approach would spread our resources thin with each team reinventing the wheel for database management, leading to inefficiencies, duplicated efforts, and complex migrations. In this session, we will delve into how Netflix's Data Access team has





Rajasekhar
Ummadisetty
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(/speaker/rajasekhar-
ummadisetty/)

DevOpsCon by Red Hat

revolutionized data management through the (https://devopscon.io) These
abstractions—such as Key Value, Time Series, and
Graph—provide a stable and robust API layer that
abstracts away the complexities of underlying
databases. By allowing application teams to focus
on their access patterns and requirements (e.g.,
RPS, WPS), our platform intelligently runs capacity
planners, transforms needs into Hardware
requirements, and provisions the optimal
databases. This innovative approach simplifies
database management, enables seamless client-
transparent migrations, and supports a myriad of
use cases at Netflix scale. Attendees will learn
about the architecture of our Data Abstractions,
the novel techniques we employ to maintain
predictable and reliable performance, and
insights from executing one of the largest
database migrations in the industry.

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