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

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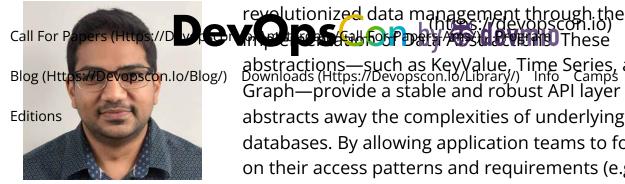
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Vidhya Arvind More Info >

(/speaker/vidhyaarvind/) 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 More Info >

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abstractions—such as KeyValue, Time Series, and Downloads (Https://Devopscon.lo/Library/) Info Camps 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 clienttransparent 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 erlin/ insights from executing one of the largest database migrations in the industry.

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