

Tony James

Session 2

Title: Architecting Collaboration: Evaluating Open Source Models in HPC

Abstract:

As hardware evolution outpaces software adaptation, architecting sustainable collaboration is a critical challenge for the HPC community. This session evaluates the structural requirements for scaling software by comparing lab-led, foundation-based, and commercial open-source models. We will analyze strategies for bridging the gap between research innovation and long-term operational maintenance, providing a framework for designing software ecosystems that remain resilient across shifting hardware generations.

Bio:

Tony James is a Chief Architect in Red Hat's CTO organization, where he drives the evolution of open-source solutions for data-intensive research and aerospace infrastructure. Tony acts as a strategic link between cutting-edge scientific requirements and enterprise-grade scalability. His work is centered on building the frameworks that allow research institutions and industry partners to solve complex computational challenges, ensuring that open source remains the engine of modern scientific advancement.