

Microsoft @ VLDB 2025

Attendees

Subru Krishnan	Gray Systems Lab	subru.krishnan@microsoft.com
Yuanyuan Tian	Gray Systems Lab	yuanyuantian@microsoft.com
Fotis Psallidas	Gray Systems Lab	Fotis.Psallidas@microsoft.com
Venkatesh Emani	Gray Systems Lab	venkatesh.emani@microsoft.com
Kevin Gaffney	Gray Systems Lab	kevin.gaffney@microsoft.com
Shaleen Deep	Gray Systems Lab	shaleen.deep@microsoft.com
Andreas Mueller	Gray Systems Lab	andreas.mueller@microsoft.com
Yiwen Zhu	Gray Systems Lab	Zhu.Yiwen@microsoft.com
Badrish Chandramouli	MSR Data Systems	badrishc@microsoft.com
Yeye He	MSR Data Systems	yeyehe@microsoft.com
Yinan Li	MSR Data Systems	yanan.li@microsoft.com
Wentao Wu	MSR Data Systems	wentao.wu@microsoft.com
Harsha Vardhan Simhadri	Azure Databases	harshasi@microsoft.com
Hanuma Kodavalla	Azure Databases	hanumak@microsoft.com
Nitish Upreti	Azure Databases	niupre@microsoft.com
Krishnan Sundaram	Azure Databases	krishs@microsoft.com

Microsoft Booth presence

Sep 1	10-10.30	Harsha	Badrish Chandramouli
Sep 1	15-15.30	Fotis Psallidas	Yeye He
Sep 2	10-10.30	Hanuma Kodavalla	Yinan Li
Sep 2	15-15.30	Shaleen Deep	Wentao Wu
Sep 3	10-10.30	Yuanyuan Tian	Harsha Simhadri
Sep 3	15-15.30	Yiwen	Andreas Mueller
Sep 4	10-10.30	Venkatesh Emani	Nitish Upreti
Sep 4	15-15.30	Kevin Gaffney	Krishnan Sundaram
Sep 5	10-10.30	Subru Krishnan	
Sep 5	15-15.30		

Invited Talks

Building Autonomous Data Services on Azure	Yuanyuan Tian	AIDB Workshop Keynote
Challenges and Lessons Learnt from Productizing NL2SQL@Microsoft	Fotis	IDSR Workshop
The DiskANN vector indexing library: From Ideas to Scale at Microsoft	Harsha Simhadri	Microsoft Sponsor Talk
Autonomos Agents - Beyond Q&A	Yiwen	IDSR Workshop

Demos

Horizon: Robust Checks for SQL Migration Using LLMs	Venkatesh Emani (Microsoft);Wenjing Wang (Microsoft);Zi Ye (Microsoft);Jia He (Microsoft);Neel Ball (Microsoft);Kumaraswamy Boora (Microsoft);Carlo Curino (Microsoft);Avrilia Floratou (Microsoft);Manan Goenka (Microsoft);Paridhi Gupta (Microsoft);Vivek Gupta (Microsoft);Katherine Lin (Microsoft);Nick Litombe (Microsoft);Jared Meade (Microsoft);Suryakant Mutnal (Microsoft);Raghu Ramakrishnan (Microsoft);Sudhir Raparla (Microsoft);Dhruv Relwani (Microsoft);Shyam Sai (Microsoft);Vaibhave Sekar (Microsoft);Roneet Shaw (Microsoft);Harmeet Singh (Microsoft);Prasanna Sridharan (Microsoft);Mark Taylor (Microsoft);Sunidhi Tiwari (Microsoft);Yiwen Zhu (Microsoft)
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Job openings

https://jobs.careers.microsoft.com/global/en/job/1863536/Principal-Software-Engineer	Azure Data
https://jobs.careers.microsoft.com/global/en/job/1838180/Senior-Software-Engineer	Azure Service Bus
https://jobs.careers.microsoft.com/global/en/job/1832804/%E2%80%8B%E2%80%8BSenior-Software-Engineer%E2%80%8B	Fabric
https://jobs.careers.microsoft.com/global/en/job/1832420/Software-Engineer-II	Fabric
https://jobs.careers.microsoft.com/global/en/job/1858370/Principal-Software-Engineering-Manager	Fabric
https://jobs.careers.microsoft.com/global/en/job/1863252/%E2%80%8B%E2%80%8BSenior-Software-Engineer%E2%80%8B	MySQL
https://jobs.careers.microsoft.com/global/en/job/1853826/Software-Engineer---Azure-Data	PostgreSQL

https://jobs.careers.microsoft.com/global/en/job/1862877/%E2%80%8B%E2%80%8BSenior-Software-Engineer%E2%80%8B	Postg
https://jobs.careers.microsoft.com/global/en/job/1857170/%E2%80%8B%E2%80%8BPrincipal-Software-Engineer%E2%80%8B	Postg
https://jobs.careers.microsoft.com/global/en/job/1863604/Senior-Software-Engineer	Power
https://jobs.careers.microsoft.com/global/en/job/1830115/Software-Engineer-II	SQL
https://jobs.careers.microsoft.com/global/en/job/1860144/Senior-Software-Engineer	SQL
https://jobs.careers.microsoft.com/global/en/job/1862675/Principal-Software-Engineer	Synap
https://jobs.careers.microsoft.com/global/en/job/1862209/Software-Engineer-2	Synap
https://jobs.careers.microsoft.com/global/en/job/1836320/%E2%80%8B%E2%80%8BSoftware-Engineer-II%E2%80%8B	Fabric
https://jobs.careers.microsoft.com/global/en/job/1835877/%E2%80%8B%E2%80%8BSenior-Software-Engineer-%E2%80%8B	Fabric
https://jobs.careers.microsoft.com/global/en/job/1830832/%E2%80%8BSenior-Software-Engineer	Power
https://jobs.careers.microsoft.com/global/en/job/1822119/%E2%80%8B%E2%80%8BSoftware-Engineer-II%E2%80%8B	Postg
https://jobs.careers.microsoft.com/global/en/job/1835848/%E2%80%8B%E2%80%8BPrincipal-Software-Engineering-Manager	Power
https://jobs.careers.microsoft.com/global/en/job/1822129/Senior-Software-Engineer	Cosm DB
https://jobs.careers.microsoft.com/global/en/job/1838508/Principal-Software-Engineer	Cosm DB
https://jobs.careers.microsoft.com/global/en/job/1814092/Senior-Software-Engineer	Cosm DB
https://jobs.careers.microsoft.com/global/en/job/1837331/Principal-Software-Engineer	SQL
https://jobs.careers.microsoft.com/global/en/job/1852564/Senior-Software-Engineer	Fabric
https://jobs.careers.microsoft.com/global/en/job/1838511/%E2%80%8B%E2%80%8BSenior-Software-Engineer%E2%80%8B	SQL
https://jobs.careers.microsoft.com/global/en/job/1837614/Senior-Software-Engineer	Cosm DB
https://jobs.careers.microsoft.com/global/en/job/1824291/Senior-Software-Engineer	RTAP

Papers

FSphinteract: Resolving Ambiguities in NL2SQL Through User Interaction	Fuheng Zhao (UCSB);Shaleen Deep (Microsoft Gray Systems Lab);Fotis Psallidas (Microsoft);Avrilia Floratou (Microsoft);Divy Agrawal (University of California, Santa Barbara);Amr El Abbadi (UC Santa Barbara)
Cost-Effective, Low Latency Vector Search with Azure Cosmos DB	Nitish Upreti (Microsoft);Harsha Simhadri (Microsoft);Hari Sundar (Microsoft);Krishnan Sundaram (Microsoft);Samer Boshra (Microsoft);Bala Perumalswamy (Microsoft);Shivam Atri (Microsoft);Martin Chisholm (Microsoft);Revti Singh (Microsoft);Greg Yang (Microsoft);Tamara Hass (Microsoft);Nitesh Dudhey (Microsoft);Subramanyam Pattipaka (Microsoft);Mark Hildebrand (Microsoft);Magdalen Manohar (Microsoft);Jack Moffitt (Microsoft);Haiyang Xu (Microsoft);Naren Datha (Microsoft);Suryansh Gupta (Microsoft);Ravi Krishnaswamy (Microsoft);Prashant Gupta (Microsoft);Abhishek Sahu (Microsoft);Hemeswari Varada (Microsoft);Sudhanshu Barthwal (Microsoft);Ritika Mor (Microsoft);James Codella (Microsoft);Shaun Cooper (Microsoft);Kevin Pilch (Microsoft);Simon Moreno (Microsoft);Aayush Kataria (Microsoft);Santosh Kulkarni (Microsoft);Neil Deshpande (Microsoft);Amar Sagare (Microsoft);Dinesh Billa (Microsoft);Zishan Fu (Microsoft);Vipul Vishal (Microsoft)
PDFDumpKV: Learning based lifetime aware garbage collection for key value separation in LSM-tree	ZHUTAO ZHUANG (Microsoft);Xinqi Zeng (Sun Yat-sen University);Zhiguang Chen (Sun Yat-sen university)
Stochastic SketchRefine: Scaling In-Database Decision-Making under Uncertainty to Millions of Tuples	Riddho Ridwanul Haque (University of Massachusetts Amherst);Anh Mai (NYU Abu Dhabi);Matteo Brucato (Microsoft);Azza Abouzied (NYU Abu Dhabi);Peter Haas (University of Massachusetts Amherst);Alexandra Meliou (University of Massachusetts Amherst)
MD-MVCC: Multi-version Concurrency Control for Schema Changes in Azure SQL Database	Panagiotis Antonopoulos (Microsoft);Mansi Chauhan (Microsoft);Shailender Dabas (Microsoft);Rajat Jain (Microsoft);Darshan Kattera (Microsoft);Wonseok Kim (Microsoft);Hanuma Kodavalla (Microsoft);Nikolas Ogg (Microsoft);Prashanth Purnananda (Microsoft);Rahul Ranjan (Microsoft);Alex Swanson (Microsoft);Divyesh Tikmani (Microsoft)
From FASTER to F2: Evolving Concurrent Key-Value Store	Konstantinos Kanellis (University of Wisconsin-Madison);Badrish Chandramouli (Microsoft Research);Ted Hart

Designs for Large Skewed Workloads	(Microsoft Research);Shivaram Venkataraman (University of Wisconsin-Madison)
Scaling GPU-Accelerated Databases beyond GPU Memory Size	Yinan Li (Microsoft Research);Bailu Ding (Microsoft Research);Ziyun Wei (Cornell University);Lukas Maas (Microsoft Research);Momin Al-Ghosien (Microsoft);Spyros Blanas (The Ohio State University);Nicolas Bruno (Microsoft);Carlo Curino (Microsoft);Matteo Interlandi (Microsoft);Craig Peeper (Microsoft);Kaushik Rajan (Microsoft Research);Surajit Chaudhuri (Microsoft Research);Johannes Gehrke (Microsoft)
Esc: An Early-Stopping Checker for Budget-aware Index Tuning	Xiaoying Wang (Simon Fraser University);Wentao Wu (Microsoft Research);Vivek Narasayya (Microsoft);Surajit Chaudhuri (Microsoft)
Auto-Prep: Holistic Prediction of Data Preparation Steps for Self-Service Business Intelligence	Eugenie Lai (Massachusetts Institute of Technology);Yeye He (Microsoft Research);Surajit Chaudhuri (Microsoft)
Horizon: Robust Checks for SQL Migration Using LLMs	Venkatesh Emani (Microsoft);Wenjing Wang (Microsoft);Zi Ye (Microsoft);Jia He (Microsoft);Neel Ball (Microsoft);Kumaraswamy Boora (Microsoft);Carlo Curino (Microsoft);Avrilia Floratou (Microsoft);Manan Goenka (Microsoft);Paridhi Gupta (Microsoft);Vivek Gupta (Microsoft);Katherine Lin (Microsoft);Nick Litombe (Microsoft);Jared Meade (Microsoft);Suryakant Mutnal (Microsoft);Raghu Ramakrishnan (Microsoft);Sudhir Raparla (Microsoft);Dhruv Relwani (Microsoft);Shyam Sai (Microsoft);Vaibhave Sekar (Microsoft);Roneet Shaw (Microsoft);Harmeet Singh (Microsoft);Prasanna Sridharan (Microsoft);Mark Taylor (Microsoft);Sunidhi Tiwari (Microsoft);Yiwen Zhu (Microsoft)
AutoDebugger: Efficient Root Cause Analysis for Anomaly Jobs	Fathelrahman Ali (Google); Yiwen Zhu (Microsoft); Lie Jiang (Microsoft); Zhen Li (Microsoft); Manting Li (Microsoft); Kun Huang (Microsoft); Lijing Lin (Microsoft); Long Tian (Microsoft); Xiaolei Liu (Microsoft); Subru Krishnan (Microsoft)