

Long Biography of Stephen Brobst

Stephen Brobst is the Chief Technology Officer for Teradata Corporation. His expertise is in the identification and development of opportunities for the strategic use of technology in competitive business environments. Over the past thirty years Stephen has been involved in numerous engagements in which he has been called upon to apply his combined expertise in business strategy and high-end parallel systems to develop frameworks for analytics and machine learning to leverage information for strategic advantage.



Clients with whom he has worked include leaders such as eBay, Staples, Fidelity Investments, General Motors Corporation, Kroger Company, Wells Fargo Bank, Wal*Mart, AT&T Communications, Aetna Health Plans, Metropolitan Life Insurance, VISA International, Vodafone, Blue Cross Blue Shield, Nationwide Insurance, American Airlines, Mayo Clinic, Walgreen Corporation, and many more. Stephen has particular expertise in the deployment of solutions for maximizing the value of customer relationships through the use of advanced customer relationship management techniques with omni-channel deployment.

Prior to joining Teradata, Stephen successfully launched four start-up companies related to high-end database products and services in the analytics and e-business marketplaces: (1) Tanning Technology Corporation (IPO on NASDAQ), (2) NexTek Solutions (acquired by IBM), (3) eHealthDirect (acquired by HealthEdge), and (4) Strategic Technologies & Systems (acquired by NCR). Previously, Stephen taught graduate courses at Boston University and the Massachusetts Institute of Technology in both the MBA program at the Sloan School of Management and in the Computer Science departments of both universities. He received instructor of the year award for two of his last five years in the MET Computer Science department at Boston University and continues to guest lecture at the Massachusetts Institute of Technology, Stanford University, and the Kellogg Graduate School of Management. Stephen performed Masters and PhD research at the Massachusetts Institute of Technology where his dissertation work focused on load-balancing and resource allocation for parallel computing architectures. He also holds an MBA with joint course and thesis work at the Harvard Business School and the MIT Sloan School of Management. Stephen completed his undergraduate work in Electrical Engineering and Computer Science in just three years at U.C. Berkeley, and was awarded with the highest honor given to a graduating senior in the College of Engineering (Bechtel Engineering Award).

Stephen is an elected member of the Phi Beta Kappa, Eta Kappa Nu, Tau Beta Pi, Sigma Xi, New York Academy of Sciences, U.C. Berkeley Alumni Scholars Association, and California Scholarship Federation honor societies. He is also a member of the Association for Computing Machinery, IEEE, Society for Information Management, and Computing Professionals for Social Responsibility. Stephen has served as an advisor to the National Academy of Sciences in the area of IT workforce development. During Barack Obama's first term he was also appointed to the Presidential Council

of Advisors on Science and Technology (PCAST) in the working group on Networking and Information Technology Research and Development (NITRD). In 2014 he was ranked by ExecRank as the #4 CTO in the United States (behind the CTOs from Amazon.com, Tesla Motors, and Intel) out of a pool of 10,000+ CTOs for his role in developing defensible technologies and leveraging those technologies to strengthen competitiveness for Teradata Corporation and its clients.

Stephen has authored numerous journal and conference papers in the fields of data management and parallel computing environments and is an internationally recognized speaker (and practitioner) in the area of breakthrough systems implementation. He recently co-authored the chapter on "Big Data" for the Handbook of Computer Science (published by the Association for Computing Machinery) and previously co-authored "Building a Data Warehouse for Decision Support" (published by Prentice Hall PTR). Stephen is currently working on a new book focused on real-time data warehousing. He holds nearly a dozen patents (some still pending) in the area of advanced data management. He has been a contributing editor for Intelligent Enterprise Magazine and has published dozens of technical articles in The International Journal of High Speed Computing, Communications of the ACM, The Journal of Data Warehousing, Enterprise Systems Journal, DM Review, Database Programming and Design, DBMS Tools & Techniques, DB2 Magazine, Oracle Magazine, Teradata Magazine, and many others. Stephen has also served on the RealWare Panel for recognizing outstanding implementations in the field of e-commerce and customer relationship management (CRM) solutions. He is also on the XLDB (eXtremely Large Data Base) working group committee at Stanford University. Stephen is a TDWI Fellow and has been on the faculty of The Data Warehousing Institute (TDWI) since 1996 and teaches courses related to Machine Learning and Artificial Intelligence, Agile Analytics, Real-Time Analytics, High Performance Data Warehouse Design, Future Trends in Analytics, Data Visualization, Capacity Planning, Big Data Exploitation, and Enterprise Information Management.