

James M. Sharpe

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Senior Technical Manager with over 30 years of professional experience combining analytical and technical skills with strong leadership, communication, and organizational abilities

- 20+ years of commercial IT Analysis/ Design/Development Experience
 - 10+ years Internet Architectures
 - Tactical & Strategic Planning
 - Requirements Development & Analysis
 - Software Development Methodologies
 - Full Lifecycle System Realization
 - Teambuilding
 - Proposal Development
 - Technology & Vendor Evaluations
 - Production System Problem Resolution
 - Performance Mitigation
 - Legacy System Integration
 - Stream Processing
 - Machine Learning / Cognitive Computing
 - Decision Support, Risk Analysis, “Sensemaking”
 - Knowledge Management and Reasoning
 - Visualization & GUI Design/Development
 - Soft Reasoning Technologies
 - Temporal Analytics
 - Data Fusion / Resource Management
 - In-memory Technologies
 - Business Process Management Suites
 - Service Oriented Architectures
 - Composite Applications
 - Consumer & Embedded Systems
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Professional Experience

August 1993 - Present

SOFTWARE ENGINEERING CONSULTANT Sharpe Engineering Inc. - Crested Butte, CO

Provide intelligent IT solutions from analysis, planning, and conceptual design through implementation, testing and deployment. Contribute in both management and technical capacities on projects ranging from enterprise application integration to custom vertical solution development and deployment. Experienced working with people and teams at all levels of an organization from individual developers to C level executives. Effective at bridging communication between both technical and nontechnical personnel.

Consulting services relate to a variety of complex low-latency analytics on big data for situational awareness and/or resource management. In particular, focusing on the effective combination of a number of different technologies and methods to address challenges that are beyond the capabilities of traditional approaches. Key aspects include:

- Ultra low latency in-memory stream processing to collect and process a wide range of explicit contextual information to produce actionable insight in real-time.
- Real-time natural language and A/V processing to accommodate unstructured data sources
- Cognitive Computing or Machine learning to identify important elements and relationships
- Effective integration with various leading data-at-rest technologies to provide insight into both current state and historical context
- Incorporation of metadata, information provenance, confidence values, and various domain specific and general-purpose modular toolkits.

Recent work has focused on “big data” situations simultaneously requiring both complex analytics and low latency performance. The solutions leverage a deep understanding of the unique strengths and characteristics of the InfoSphere Streams platform and enhance the basic stream-processing/data-in-motion paradigm.

Example use-cases are as wide ranging as real-time monitoring, analysis, and presentation of clinical data in a critical care setting and operational awareness for electrical distribution. Each solution effectively addresses a situation where the organization had been “*drowning in data*” to the extent that valuable information was being wasted.

Current projects include solutions that leverage the unique characteristics of the InfoSphere Streams in-memory data-in-motion platform and the various Watson cognitive technologies including Watson Discovery Advisor, Watson QA, and others. The methods and technologies applied provide capabilities to produce “*better knowledge faster*”.

February 2007 - January 2010

ENTERPRISE ARCHITECT *StoneRiver – Denver, CO*

February 2001 - August 2002

SENIOR MANAGER / SYSTEMS ARCHITECT *Arthur Andersen - San Francisco, CA*

August 1989 - August 1993

PROTOTYPING ENGINEER Spatial Technology - Boulder, CO

August 1990 - August 1992

SENIOR SOFTWARE ENGINEER Applied Technology - Boulder, CO

March 1987 - August 1989

SENIOR SOFTWARE ENGINEER Cadnetix/Daisy, Tools Group - Boulder, Colorado

January 1986 - March 1987

DEVELOPMENT ENGINEER Colorado Memory Systems - Loveland, Colorado

December 1984 - December 1985

SOFTWARE DESIGN ENGINEER Teksoft - Phoenix, Arizona

August 1984- December 1984

SENIOR ELECTRONICS TECHNICIAN ADR Ultrasound - Tempe, Arizona

October 1983 - August 1984

SOFTWARE TECHNICIAN Medtronic Micro-Rel - Tempe, Arizona

October 1979 - October 1983

ELECTRONIC TEST TECHNICIAN Motorola G.E.G - Scottsdale, Arizona

Education

BS - Computer Science, Arizona State University, Tempe Arizona.

BS - Electronics Engineering Technology, DeVry Institute of Technology, Phoenix Arizona.

TAU ALPHA PI Honor Society, Presidential Honor Society.