

Ryan D. Jarvis

The Woodlands, TX

833.762.5674 | ryan.d.jarvis@gmail.com | linkedin.com/in/ryan-d-jarvis

CHIEF TECHNOLOGY OFFICER

Highly innovative and visionary leader, skilled at creating and implementing strategies to modernize business operations. Adept at leveraging new technologies to optimize the supply chain, enhance business processes, and increase sustainability through the adoption of industry standards.

A seasoned advisor who gets things done and adds value by:

- Leading change across the industry through public speaking, consulting, conference panels, and moderating multi-discipline cross functional workshops involving operators, vendors, service companies and cloud providers.
- Establishing vision, strategy, and roadmaps that enable the energy transition, capitalize on the industry's digital transformation, and maximizes the speed and value of business decisions built upon trusted data, governance, and industry standards.
- Bridging the gap between business demand and technology solutions with a unique cross domain expertise, proven inclusive leadership, and tangible pathway generation for holistic value propositions that interconnect business capabilities with modern technologies and enable largescale enterprise innovation and transformation.

AREAS OF EXPERTISE

Emerging Technologies and Innovation, Data Strategy, Digital and Cloud Strategy, Team of Teams, Leadership, Consulting, Collaboration, Cross-Functional Team Management, Project and Program Management, Strategic Planning and Roadmaps, Subsurface Geoscience and Engineering Workflow Modernization, Geology, Stratigraphy, Sedimentology, Geophysics, Analytics, AI/ML, Data Governance, Business Capability, Assessment & Prediction, Process Automation, Energy Prospecting, Reservoir Characterization, Seismic Interpretation, Modeling, Resource Exploration, Upstream Research, Software Development, Databases, Infrastructure, Cryptography, Cybersecurity, Digital Credentials, and Block Chain for Energy

PROFESSIONAL EXPERIENCE

EXXONMOBIL-Spring, TX

ExxonMobil Technology and Engineering Company - Subsurface

Subsurface Data Strategy Advisor

Sept 2021-Present

Established the subsurface data vision, strategy, and roadmap catapulting ExxonMobil into the lead operator and influencer role of the Open Group's OSDU data platform enabling our privileged assets to accelerate industry support for the modernization of 4D Seismic to Simulation and Rock and Fluids workflows.

KEY FUNCTIONS/SKILLS: *leadership, dynamic teams, technology solutions implementation, software development, innovation, strategic thinking, communication, data governance framework development, data governance implementation, data domain stewardship, process improvement, partnership development, business value proposition, external collaboration*

SELECT ACHIEVEMENTS:

- Led the development of industry standards for trusted data and worked with many key vendors to implement OSDU compatible applications with the ability to capture, honor, and track the trust context of Technical Assurance on all data products in the cloud including collections, and the ability to tie those collections to business decisions.
- Formulated the workflow-based data strategy value proposition (\$B) and influenced the industry to focus on capabilities and workflows to realize early direct benefits of modernizing workflows for the business in the cloud.
- Acted as the voice for ExxonMobil at a number of external conferences, events and for multiple publications and social media posts communicating our subsurface data vision, strategy, and roadmap to the world.

PROFESSIONAL EXPERIENCE (continued)

EXXONMOBIL-Spring, TX
Upstream Research Company

Upstream Frontier Research Program Lead

Jan 2021-Sept 2021

Led the team of researchers and collaborated globally across our new opportunity teams generating the key list of competitive and patentable research projects and provided management guidance with analytical dashboards showing their associated schedule, cost, and priority along with business value.

KEY FUNCTIONS/SKILLS: *exploration geoscience research, program management, patent & IP coordination, collaboration, consortium representative, cross-functional team management*

SELECT ACHIEVEMENTS:

- Led efforts to identify, prioritize, and pursue key research projects within the Upstream Research Program
- Designed & developed the Reservoir Systems plan/budget reporting system to visualize plan vs actual costs in real-time

EXXONMOBIL-Spring, TX
Upstream Integrated Solutions Company

Technology Development Team Lead

Nov 2019- Jan 2021

Led the deep-water currents proprietary research team in establishing new global opportunities based on transporting key hydrocarbon play elements to places not originally expected.

KEY FUNCTIONS/SKILLS: *clastic sequence stratigraphy, exploration geology, project management, risk management, cross-functional team management, budget management, communications, external collaboration*

SELECT ACHIEVEMENTS:

- Global deployment of the spatially supported play element atlas as a web map service instantly integrated into existing applications and tools.

EXXONMOBIL-Spring, TX
ExxonMobil Exploration Company

Senior Geoscientist | Exploration Geologist

Feb 2011- Nov 2019

Provided key regional stratigraphic support for new opportunity and operation teams covering the exploration of deepwater Gulf of Mexico, Brazil, and Argentina identifying and maturing prospects as well as assisting with drilling operations.

KEY FUNCTIONS/SKILLS: *stratigraphy, analytics, prospect mapping and maturation, prospect assessment, EOD/NTG predictions, seismic interpretation, well-ties, teaching, mentoring, collaboration, project management, risk management, situational analysis, cross-functional team management, presentations, analysis, communications, SQL, databases, automation*

SELECT ACHIEVEMENTS:

- Invented, implemented, and deployed the Stratigraphic Analytics System with hands on technical training worldwide.
- Designed, developed, and documented new stratigraphic interpretation processes and workflows to efficiently and effectively capture stratigraphic reservoir properties for conditioning and maturing prospects to drill ready status
- Designed, developed, and delivered thousands of hours of technical training and support to ExxonMobil Geoscientists worldwide from London to Malaysia as well as locally in Houston teaching seismic interpretation, well correlation, geological modeling, user support, and upgrade courses with the latest versions of Petrel.

Application Developer | Cybersecurity Authentication Expert

May 2003- Feb 2011

Worked directly with engineers and geoscientists to deliver new proprietary reservoir simulation technologies within the company’s flagship reservoir simulator. Designed and implemented next generation single sign-on authentication services across Windows and UNIX platforms using Active Directory and Kerberos. Also tested the first SharePoint collaboration technologies for the Upstream and provided the first consolidated risk assessment database for Upstream Applications.

KEY FUNCTIONS/SKILLS: *cybersecurity, authentication, authorization, computational sciences, software development, database design and administration, enterprise infrastructure and security, risk management, digital credentials, X.509 Certificates, Object-oriented databases, C++, SQL, relational databases, process automation, knowledge bases*

SELECT ACHIEVEMENTS:

- Developed reservoir simulation software and tools for engineers and geoscientists as part of the largest in-house development efforts with over 11 million lines of code and petabytes of scientific data
- Designed, developed, and deployed the first PKI and corporate smartcards for secure access to computing resources.
- Designed and implemented next generation single sign on authentication services across platforms
- Achieved a 60x speedup improvement in the performance of database tools using parallel computing (8 hrs to 8 min) and reduced the time for future database migrations from an average of 72 hours to 2 hours and from 141 steps to 5 steps.

EDUCATION | ASSOCIATIONS | COLLABORATIONS

DEGREES:

- Masters in Subsurface Geoscience (MS) – Rice University, Texas 2011
- Masters in Computer Science (MS) – Brigham Young University, Utah 2003
- Bachelors in Computer Science (BS) – Brigham Young University, Utah 2002

INDUSTRY ASSOCIATIONS: AAPG, SEG, SPE, SEPM, PPDM, The Open Group (OSDU, Open Footprint), and Block Chain for Energy

RECENT CONFERENCES: CERA Week, SEG/AAPG IMAGE, EAGE, Digitalization in Oil and Gas, Oil and Gas Automation and Technology Week, Energy in Data, OSDU F2F (London), OSDU F2F (Houston), OSDU (Paris), and ION-Energy Acceleration

STRATEGIC COLLABORATIONS: Accenture, AkerBP, Amazon Web Services, Applied Petroleum Technology, Argon Digital, AspenTech, AVEVA, Bain Capital, Baker Hughes, BHP Billiton Deepwater, Inc, BlockChain for Energy, Bluware, BP, Capgemini, CGG, Chenery, Chevron, Cognite AS, ConocoPhillips, Core Laboratories, DataBricks, Dataiku, DataVedik, Dell Technologies, Deloitte Consulting, LLC, Elsevier, Energistics, Enthought, Inc., EPAM Systems, Equinor, ESRI, EY, GeoSoftware, Geoteric, Getech, Google, Halliburton, i2K Connect, Inc., IBM, Ikon Science Ltd, Infosys, Interactive Network Technologies, Interica Ltd, Katalyst Data Management, LTIMindtree, Lumen, Marathon Oil, Microseismic INC, Microsoft , NetApp, NOV, Oasis, Osokey, Occidental Petroleum Corporation, Oracle, Ovation Data Services, Pandata Tech, Pariveda Solutions, Petrabytes Corporation, Petrobras, Petrolink, Petronas, Petrospects, Rock Flow Dynamics, RoQC Data Management, S&P Global , SLB, Seagate, Shearwater GeoServices, Shell, Simba Chain, SparkCognition, StarDog, Stratadata - Stratabugs, Sword-Group, Teradata Corporation, TGS, PPDM, Thoughtworks, TotalEnergies , Weatherford, Whitson, and Wood Mackenzie.

Core STRENGTHS (RED-BLUE) – People & Performance

Modest, Sociable, Helpful, Open-to-Change, Honest, Hard Working, Sincere, Visionary, Courage of Conviction, Teacher

ADDITIONAL RELEVANT EXPERIENCE & INTERESTS

Eagle Scout, BSA Scoutmaster, Soccer Coach, Videographer, Photographer, Farmer, Tractor Operator, Outdoors, Projects

*[References on LinkedIn](#) as well as upon Request

Ryan D. Jarvis Resume 2023



ROCKNRG
CONSULTING

