

ACCELERATED COMPUTING (AI) ALCHEMIST, ARCHITECT & ADVISOR

Accelerated Computing (AI) and Supercomputing Strategist, Change Agent, and experienced technical professional mentoring industries and governments requiring purpose-built artificial intelligence (AI) or high performance computing (“HPC”) systems. Architecture solutions for extreme compute and data needs. HPC plus Machine Learning (ML) proficiency helps companies and agencies achieve business value by exploiting their resources with reduced investments. Expertise is best leveraged by high-tech organizations—motivated start-ups and passionate HPC consumers. Strengths include proven abilities in HPC, real-time Big Data, and cyber security when applied to capturing new markets using competitive workflows in a decision support environment for situational awareness and institutional learning.

BUSINESS COMPETENCIES

- Strategy and Planning.
- Extreme Scale Computing.
- Sales and Marketing.
- Cloud Computing.
- Cyber Security.
- Architecture and Design.
- AI, ML and DL.
- Frameworks for Learning.
- Mobile and Real-time Data.

PROFESSIONAL EXPERIENCE

Ideas And Machines, Inc., Houston, Texas

2010 – Present

Accelerated Computing (AI) Alchemist, Architect & Advisor

Provided industry and government consulting and subject matter expert advice on HPC, Cloud Computing, and real-time data analytics (AI) for knowledge processing. Applied HPC and Deep Learning technology as a competitive and leadership advantage, economic development, government policy platform, and sustainable workforce creation engine.

- Plumber for data in motion problems with new analytical architectures and designs for real-time processing resulting in 10X speed-up of data ingest and processing.
- Innovator founding and directing world’s first public-private partnerships for the HPC Cloud leveraged by the states and provinces as an economic development engine for job growth.
- Designer of infrastructure, architecture, and HPC application services to develop a secure, scalable, sustainable energy system for turbines systems leveraging autonomic computing.
- Pioneer of 3D collaborative visualization architectures and designs to support and guide clients through experiential storytelling of complex products and solutions.

HPE / SGI, Houston, Texas

2016 – 2017

Federal Business Development Executive

2016 – 2017

Identified future funding sources, programs, and revenue prospects adding 25% to the sales pipeline viewed three years out. Positioned HPE supercomputing success for Horizon II (3 to 8 years out). Focused on the Federal Civil market space and the America's geography.

- Catalyst for sales growth by positioning HPC general-purpose and customized solutions for Cyber Security and Cloud strategies targeting the public and industrial sectors.
- Futurist that aligns technology trends and product development portfolios given clients’ complex needs for scalable architectures and diverse workflows that are future-proof.
- Intreprenuer that melds marketing data, business opportunities, and strategies to test and deploy new HPC solutions and services to be consumed internally and sold externally.
- Analyst that maps and fuses strategy and solutions to bridge commercial sales demands (short-term) with business development (long-term) requirements of government.
- Craftsman that consolidates trends, funding models, political mandates, and security interests for best-fit proofs of concept (POCs) demonstrated by new product architectures.

IBM Corporation, Houston, Texas**1999 – 2010****Deep Computing Strategist & Business Development Executive**

Built long-term, sustainable economic growth model for local, state, regional, and national governments by creating a replicable public-private partnership model. Fashioned and lead services offerings (now Lab Services) that drove net-new revenue. Positioned IBM to dominate the TOP500 Supercomputer Sites list and achieved the first Petascale system (RoadRunner). Prepared system architectures for cognitive computing (IBM Watson) by delivering integrated solutions at extreme scale and performance.

- Created the Deep Computing Services business line for HPC services opportunities.
- Shared Chief Technology Officer role, supported the Chemical & Petroleum segment.
- Defined the vision and resources to drive the overall strategy for HPC and 3D visualization.
- Responsible for project leadership of Deep Computing Visualization (DCV) solutions.
- Drove success on the TOP500 List as the global HPC pre-sales manager.
- Led and launched the AMD Opteron product acceptance for Deep Computing.
- Executed the CEO's Open Source Software Initiative, resulting in the Linux Technology Center stand-up with an initial \$1B investment.

ADDITIONAL RELEVANT EXPERIENCE

- Managed an HPC data center for application performance and scalability benchmarking.
- Delivered future state designs that craft general rules and guidelines for use and deployment of HPC resources and assets across technical computing organizations.
- Demonstrated how HPC Cloud-based services deliver greater agility, higher levels of innovation, faster responsiveness to changes, and a new, improved ability to contain costs and reduce the need for capital expenditures by 8-10% annually.

EDUCATION**Master of Business Administration (MBA), Concentration in Finance**

Tulane University, New Orleans, Louisiana

Bachelor of Science (BS) & Master of Science (MS), Mining Engineering

Montana College of Mineral Science & Technology, Butte, Montana

PROFESSIONAL AFFILIATIONS**Society of HPC Professionals, Inc. (SHPCP)**

President, 2014 – 2017 Board Member, 2014 – Present

InfraGard (FBI)

Houston Chapter, IT and O&G SIGs, 2015 – Present

PATENTS**Applied: U.S. 2014/0025703**

Intelligent Data Exploration And Analytics System (IDEAS)