# Technical Expertise

**Big Data Ecosystem, Machine Learning, and Deep Learning**

* **Stream Event/Data Processing:** Apache Kafka, Apache Flink, ksqlDB, Native Java Kafka Streams, Apache Spark
* **Core:** AWS S3, Hadoop HDFS
* **Data Ingestion:** Kafka Connector, Python, Java, StreamSets Data Collector and Transformer
* **NoSQL:** Pinecone and MongoDB

**Software Engineering**

* **Language/Scripting:** Go (a.k.a., Golang), Python, Java, JavaScript, Kotlin, C#, C++, C, PASCAL, LOGO, BASIC
* **Markup Language:** HTML5, CSS3
* **REST Framework:** ASP.NET Core MVC, Django, Flask
* **Web Framework:** ASP.NET, ASP.NET Core MVC
* **Code Management:** GitHub, Jira
* **CI/CD:** GitHub Actions, Terraform Cloud, AWS CDK

**Infrastructure:**

* **Cloud Platform:** AWS, Azure
* **Containerization:** AWS Fargate, Docker (containers), Kubernetes (container orchestration system)
* **OS Development Platform:** MacOS

**BI/DW**

* **Architectural Pattern:** Data Warehouse Design/Architecture based on the teachings of Kimball
* **Data Modeling:** DW Model (Star/Snowflake Schema), ER
* **Relational Database:** PostgreSQL, Microsoft SQL Server, Oracle database server, and IBM DB2 database server
* **DWaaS:** Snowflake
* **ETL:** Apache Flink, Python, StreamSets Data Collector (used for both Batch and Stream Data Processing), Python, SAP BusinessObjects Data Services (BODS), Informatica PowerCenter, Microsoft SQL Server Integration Services (SSIS), Oracle PL/SQL, IBM DB2 SQL Procedural Language
* **BI:** SAP BusinessObjects Platform (SBOP) BI 4.x (including every product release in between since the original 1996 desktop release of BusinessObjects 4.0) development work (i.e., Administration, Customization, Installation, Report Development, Security, Sizing, and Universe Development)
* **Dashboard:** Snowflake Streamlit, Looker, SAP BusinessObjects Platform (SBOP) Dashboards Development
* **Data/Stream Governance:** Acryl DataHub, Confluent Data Portal, Confluent Data Contracts for Schema Registry

**Project Management**

* **Agile:** Scrum Project Management
* **Traditional:** SDLC Project Management

# Key Traits

* Entrepreneurial, Teambuilder, Fast learner, Self-starter
* [Deep Atlas AI/ML Bootcamp](https://deepatlas.ai/) Summer 2024 Program
* Constant Knowledge Seeker, for instance, attended the following events:
  + 2024 Kafka Summit London
  + 2024 - 2022 Confluent Current
  + 2023 - 2022 Snowflake Summit
* Thrives under pressure
* Problem solver with strong analytical skills
* Love sharing knowledge with others through authored webinars, blogs, and talks. For instance:
  + Medium: [**Articles on Apache Flink**](https://thej3.com/)
  + Developer Community Contribution: [**GitHub Public Repos**](https://github.com/j3_signalroom)
  + Confluent Talk, [**Data in Motion Tour 2024 in Washington, DC Customer Panel**](https://events.confluent.io/dimt2024washingtondc?session_ref=https://www.confluent.io/blog/data-in-motion-tour-DC-2024/)
  + Confluent Webinar, [**How to Expedite Your Microservices Development with Stream Governance**](https://www.confluent.io/resources/online-talk/how-acertus-drove-faster-microservices-development-with-stream-governance/)
  + Confluent Webinar,[**How ACERTUS Migrated from a Monolith to Microservices with ksqlDB**](https://www.confluent.io/resources/online-talk/harnessing-real-time-data-with-ksqldb-at-acertus/)
  + Confluent Blog, [**Real-Time Integration Use Case with Confluent and ksqlDB at ACERTUS**](https://www.confluent.io/blog/real-time-integration-use-case-with-confluent-and-ksqldb-at-acertus/)

# Work Experience

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| **A black text with letters  Description automatically generated** | | April 2024 – Present  **New York, NY** |
| **Software Developer | Founder** | |  |
| In recent years, the concept of a Data Mesh Platform for an Enterprise has deeply resonated with the founder. He began developing one at ACERTUS, but neither the organization nor the technology was fully prepared to embrace it. Instead, he introduced some technologies that would later be incorporated into a successful Data Mesh Platform, such as Kafka, Schema Registry, Kafka Streams, Flink, and Snowflake. He utilized these technologies to build the Data Analytics platform and integrated Kafka and Kafka Streams as pivotal components of the data streaming platform within the Domain-Driven Design (DDD) Architecture that his team and himself have constructed over time.  When he had the chance to exercise his ACERTUS stock options, and after being inspired by Zhamak Dehghami's book on Data Mesh (which I've listened to twice and read at least once), he decided to invest the proceeds in signalRoom. He used the investment to start work on an MVP to build the first-of-its-kind ***GenAI Data Mesh Platform-as-a-Service*** for Business, drawing on his decades of experience building Data Marts and Data Warehouses for the Global 1000.  He decided in early 2024 to enhance my knowledge in ML/AI and enrolled in the [Deep Atlas ML/AI Bootcamp](https://deepatlas.ai/). He learned a lot from experienced professionals, and he is now applying that knowledge in his work. Specifically, he is focused on using NLP, LLMs, and RAG to develop domain-specific data products. Additionally, he addresses the challenge of data composability in Data Mesh within these data products.  **— Technical Highlights:**   * **DevOps CI/CD:** GitHub Actions, Terraform Cloud, AWS CDK * **Data Streaming Platform\*:** Using AWS**\*\***, Snowflake, Confluent Cloud Kafka, and Flink, along with Java and Python to build the data quantum for generating data products, whose results are outputted to Apache Iceberg files and Kafka Topics for analytical and operational purposes * **ML/AI:** Experimenting with Shallow Learning Algorithms: Decision Trees, Gradient Boosting Machines, Logistic Regression. Deep Learning Architectures: Autoencoders, Variational Autoencoders, * **ML Ops:** Work in progress   **\*Still deciding between AWS Cognito and Okta Auth0 for the project’s digital identity solution  \*\*AWS Services: EC2, Fargate, Secrets Manager, Systems Manager, CodeArtifact, CloudWatch, Managed Apache Flink** | | |
| **A close-up of a logo  Description automatically generated** | | October 2019 – April 2024 **St. Louis, MO Kanas City, KS**  **Sacramento, CA** |
| Senior Consultant, Data & Integration Solutions Architect | June 2023 – April 2024 | |
| As a distinguished engineer and architect, I have been assigned to design and develop a real-time Order Management System (OMS) for ACERTUS. To leverage data, the system will integrate ACERTUS' core transaction systems using Confluent Kafka and ksqlDB. It will also employ a microservice architecture that can scale and evolve. This effort has already yielded significant fruit by reducing errors and costs in order execution. Moreover, this automation has allowed ACERTUS to redeploy resources to focus on other areas of the business.  On the R&D front, I have successfully deployed Confluent serverless-Flink into staging. This will eventually replace the transformation and enriching code I previously wrote in ksqlDB, Python, or Java with FlinkSQL. The deployment of Flink will enable me to create design patterns that can be used by ACERTUS's development teams to build their own stream applications with Flink in the future. This will help us to streamline our processes and improve the overall efficiency of our operations. | | |
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| Vice President, Data & Integration Services | April 2022 – June 2023 | |
| Vice President, Data | November 2020 – April 2022 | |
| When one of ACERTUS’ top five largest customers requested a new integrated end-to-end solution that would incorporate many of our services—picking up vehicles; washing, fueling, and servicing them as needed; and then delivering them to their destinations—it was clear that we would need better integration among our core systems. The challenge of architecting and implementing a solution fell to me and my team. The solution we built with [Confluent](https://www.confluent.io/get-started/?product=cloud) and [ksqlDB](https://ksqldb.io/) enabled us to lower costs, increase automation, eliminate errors, and open new business opportunities that are already generating more than **$10 million in revenue in the first year**. Now with this Domain-Driven Design (DDD) architecture when an order comes in, the order data flows over an Apache Kafka® topic to the downstream systems that need it in near real time, with no manual intervention and none of the errors that come with it.  **— Technical Highlights:**   * **Data Platform:** Using AWS (EC2, and Fargate), Snowflake, Confluent Cloud Kafka, and Python to build the near real-time Data Warehouse and Data Lake. * **Event-Driven Platform:** Using AWS (EC2, and Fargate), Confluent Cloud Kafka, Confluent Cloud ksqlDB and Java to signal and capture key milestones activities produced by business systems. Then orchestrating those key milestone activities in a coordinated fashion to fulfill cross-sales work products. | | |
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| External Partner (Crosslake Tech client) – Lead Senior Data Solutions Architect | October 2019 – October 2020 | |
| ACERTUS is an automotive logistics (3PL) and vehicle services company that offers end-to-end solutions for its customers. My main responsibilities included designing and building the Enterprise Data Platform (EDP) to provide an integrated view of the company’s three service lines: Car Haul, Drive Away, and Title & Registration. This platform serves as the single source of truth for management reporting and allows us to break down the barriers between different business systems by directly exchanging data. This enables the operational systems of the service lines to work seamlessly together, streamlining business processes and improving overall profitability within the organization.  **— Technical Highlights:**   * **Data Platform:** Using AWS (EC2, EMR, and S3), Snowflake, Kafka Confluent Cloud and StreamSets DataOps Platform (Control Hub, Data Collectors, and Transformer) to build the near real-time Data Warehouse and Data Lake. * **Event-Driven Platform:** Using Kafka Confluent Cloud and StreamSets DataOps Platform (Control Hub, Data Collectors, and Transformer) to signal and capture key milestones activities produced by business systems. Then orchestrating those key milestone activities in a coordinated fashion to fulfill cross-sales work products. | | |

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| Senior Consultant | | June 2019 – October 2020 |
| [/var/folders/8z/vrkkv4ls7txbp1m47k1_yw6r0000gn/T/com.microsoft.Outlook/Content.MSO/34EB121E.tmp](https://crosslaketech.com/) | **New York, NY** | |
| Crosslake Technologies works with private equity (PE) firms to assess risk and identify value creation opportunities for potential acquisitions. Crosslake also works with leaders in portfolio companies and other technology and technology-enabled companies to help transform and optimize product strategy, organization, process and tools to drive for improved product value and productivity, while reducing time to market and engineering costs.  **— Technical Due Diligence (TDD) Consultant:**   * On behalf of leading private equity (PE) firms, I assess and report on North American and European software growth companies (a.k.a., acquisition targets) strengths and weakness by investment objectives, top investment risks, top improvement opportunities, and cost implications   **— Interim Senior Data Strategy Architect:**   * Provide short-term specialized consulting for acquisition targets (LogisticsTechs, MedTechs, and WorkforceTechs) that lack a Senior Data Scientist/Architect | | |

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| Senior Data Strategy Architect | | January 2018 – December 2019 |
| D:\talentfulfilled inc\codebase\talentfulfilled.TAP\talentfulfilled.TAP.WebApp\Content\Images\whiteblackbluish_talentfulfilledlogo_medium.png | **Baltimore, MD** | |
| Currently underway, is the building of a Personal AI Career Pathfinder Service platform. The initial target customers are students at **Cornell University**, **MIT**, **Columbia University**, and **Georgia Tech**. The platform consists of multiple subsystems, including a UI front-end (a Web app), along with the back-end microservices and containers for all required server-side operations including several API Gateways as consolidated entry points to the internal microservices.  **— Technical Highlights:**   * **NoSQL:** Many of the microservices built use MongoDB [NoSQL database] as the persistent document store * **Data Ingestion:** To handle the data ingestion and transformation, and not handcraft the work in Python or C#. StreamSets Data Collector is deployed (which is essentially an ETL tool for streaming data). However, it was necessary when the out-of-the-box features did not support the needs. Took of the extensibility features of the product, that allowed for the creation of custom stages that were written in Java to integrate with a Spark application various data pipelines. Moreover, in the data pipeline where necessary, custom stages were written in Jython * **Event Processing:** Use StreamSets Data Collector (SDC) to collect data from sources, then pump the collected data into an Apache Spark Streaming application, which processes the live streams in real-time to generate the insights. The insights generated were then stored depending on its nature into a PostgreSQL or MongoDB database * **Microservice:** Security Microservice using ASP.NET Core Identity with Security Token Service (STS) architectural pattern written in C# with the following tech stack: ASP.NET Core, Entity Framework Core, PostgreSQL, Docker * **Microservice:** U.S. SEC EDGAR Web Scraper Microservice using the CRUD architectural pattern written in Python with the following tech stack: BeautifulSoup, Flask, Flask REST, MongoDB, Docker * **Microservice:** Web Scraper Microservice U.S. based-Corporate Job Opening using the CRUD architectural pattern written in Python with the following tech stack: BeautifulSoup, Selenium, Avro, Django, Django REST Framework, MongoDB, Redis, Docker * **Microservice:** Web Scraper Microservice U.S. based-Corporate Job Post Details using the CRUD architectural pattern written in Python with the following tech stack: BeautifulSoup, Selenium, Avro, Django, Django REST Framework, MongoDB, Redis, Docker * **Communication Architecture:** The platform uses two communication types depending on the kind of functional action taking place (queries versus updates & transactions).   + Synchronous Messaging between the Client App and API Gateways — This is used for queries and when accepting update or transactional commands from the client app via a custom-built RESTful API   + Asynchronous Messaging between the Microservices — Event bus implemented using Apache Kafka to facilitate the asynchronous event-driven communication (i.e., message brokering) between the microservices. For instance, there is a microservice that is responsible for collecting all job openings from a website. Then another microservice that is responsible for doing the scraping and storing each result as a JSON file in a MongoDB database. To orchestrate the interaction between the two microservices, Apache Kafka, message-broker capability is utilized * **Container Orchestration:** Kubernetes is used has the container orchestration platform to coordinate the scheduling and execution of the Docker containers (microservices) * **UI Front-end:** Web App using the DDD architectural pattern written in C# with the following tech stack: ASP.NET Core MVC 2.x, HTML5 & CSS3, Entity Framework Core, PostgreSQL, Docker   **— Controls:**   * **Test Driven Development (TDD):** Native VS 2019 Unit, Moq, Python UnitTest * **Version Control (VC):** GitHub * **Internal-Only Reporting/Dashboard Development:** SAP BusinessObjects BI Platform 4.2 Web Intelligence is used to build several reconciliation reports and dashboards | | |

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| Founder | CEO, Business Intelligence/Data Architect and Instructor | June 2007 – October 2018 |
| C:\Users\jeffrey.j.jennings\Pictures\menu_logo.jpg | **Baltimore, MD** |

After 9/11, I was encouraged to redirect my BI/DW consulting business to providing exclusive service to the U.S. Intelligence Community (IC). By a customer unbeknownst to me, who was a member of the Intelligence Community.

**Contracts:**

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| Mar 2014 – Oct 2018 | **U.S. DHA (GDIT) 1, 2., 11-16, 20, 21, 24, 25** |  | Sep 2011 – Apr 2012 | **U.S. DIA (Deloitte) 7, 9, 10** |
| Apr 2013 – Jul 2014 | **talentfulfilled 3, 20, 25** |  | Feb 2011 – Sep 2011 | **PartnerINTEL 20, 25** |
| Mar 2012 – Oct 2013 | **U.S. ONI (Deloitte) 4, 17, 20, 22, 24-26** |  | Mar 2010 – Jan 2011 | **U.S. FBI (ESRI) 6** |
| Apr 2012 – Jun 2012 | **Parsons Brinckerhoff 20, 23, 24** |  | Sep 2009 – Feb 2010 | **U.S. ODNI (SAP NSS) 5, 8, 17, 20** |
| Jul 2011 – Jun 2012 | **U.S. NRO (SAP NSS) 20, 25** |  | Aug 2007 – Feb 2010 | **U.S. State Department (Serco) 18-20, 27** |
| *\*\*\* Note: The number(s) next to each contract above corresponds to the matching activity number(s) below \*\*\** | | | | |

**— DW Architect and ETL:**

1. w/SSIS on SBOP BI CMS/ADS data to the SQL Server data mart
2. w/custom built stored procedures on SBOP BI CMS/ADS data to the Oracle 10g/DB2 data mart
3. w/SSIS on Student Course Selection data to the SQL Server data store
4. w/SSIS on Oracle HR and Oracle Payroll data to the SQL Server data warehouse
5. w/SAP BODS on IC Personal Data Repository data to the Oracle 11g data warehouse
6. w/SAP BODS on Geospatial data to the Oracle 11g data warehouse

Note, all Data Warehouses built had the following design/ETL elements:

* Accumulating Snapshots, Periodic Snapshots
* Fact-less Fact, Aggregated Fact, Point-in-Time Balances Fact
* Dimension outriggers
* Type 1/2/3/6 SCDs

**— BI Advisory:**

1. Provided guidance on transforming their reporting database to a full-fledge Human Capital Data Warehouse
2. SAP’s on-site champion (evangelist) of business Intelligence. Demonstrated to the various business groups (e.g., Business Systems Group, HR, and Travel Group) how SBOP BI 4.0 product suite can bring value to their everyday business tasks.
3. Provided advice and recommendations on the HC BI implementation strategy and high-level data design to Senior Management. This included providing recommendations on the BI Strategic Plan and Way Ahead for Human Capital BI, data warehouse solution options, universe design plan, and historical data storage and data snapshots.
4. Worked with the Deloitte team and the client to develop a realistic approach and timeline for the implementation of the BI solution, assist in the definition of the future state/required staffing plan, technical requirements, assisted in the development of LOEs for the detailed design, development, testing, and implementation, and assisted in developing the maintenance and support plan for ongoing support and change requests.

**— BI Customization:**

1. Built BI Java Program Objects to automate the killing of stale user sessions, backup personal folders of inactive user accounts and then remove them from the BI platform, and report all content stored in the FRS and also check that the content’s physical files indeed exist on disk
2. Built a custom SSO Java Web App to authenticate using a user’s CAC (Common Access Card) against a LDAP server to automatically log users into SBOP BI
3. Built a Web Intelligence UI Java Extension that automatically adds a custom Header and/or Footer to all exported Web Intelligence documents that are exported to PDF, CSV, Text, and Excel

**— BI Report/Dashboard Development:**

1. Authored Webi Reports that showed all the BI Users who have access to the BI platform, when they were enabled, disabled, deleted, and what User Groups they belong too
2. Authored Webi Reports that showed all the BI platform rights assigned to ever user including their Access Levels
3. Authored Webi Reports that showed all the stats (file size, location, owner, creation date, update date, etc.) of the Web Intelligences documents, Crystal Reports and Non- SBOP BI Content (e.g., Microsoft Office Documents) stored in the SBOP BI Input and Output FRS (File Repository Server) File store
4. Authored various Webi Reports and Dashboards based on the Human Capital Data in the data warehouse
5. Provided on-going support for BusinessObjects reporting request from the government customer
6. Dashboards were originally built using Business Objects Performance Manager, and those dashboards were upgraded to Business Objects Crystal Xcelsius 2008, a newer and more flexible tool for building dashboards

**— BI Sizing, Installation, Upgrading, Migrating:**

1. Sized, installed, configured and administrated multi-node SBOP BI 3.0, 3.1, 4.0, 4.1, 4.2 environments
2. Upgraded/Migrated 16,300+ user community from BOXI 3.1 w/Oracle 10g to SBOP BI 4.2 FP3 w/DB2
3. Documented a mitigation plan from SAP BOXI 3.1 SP6 w/SQL Server 2005 to SAP BO BI Platform 4.0 SP7 w/SQL Server 2012
4. Upgraded/Migrated 9,000+ user community from SBOP XI R2 w/Oracle 10g to SBOP BI 4.0 FP3

**— BI Training:**

1. Trained the support staff on best-practices for administering SBOP BI 4.x

**— BI Universe Development:**

1. Designed and Created Universe based off of developed Data Warehouse/Mart
2. Reorganized their existing 3,000+ object Production BusinessObjects Universe
3. Overhauled all the Universes and took advantage of the new features in BOXI 3.0 Universe Designer, improving the usability of the Universes. For instance, all measure objects that are non-additive measures (such as, ratio, average, and weight) were converted to the new projection function, "Database delegated,” enabling the aggregation of non-additive measure on the database server to improve performance

**— Corporate Roles/Responsibilities:**

* Vendor Relationship Management
* Business Development
* Client/Teaming Relationship Management
* IC Facility Security Officer (FSO)

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| **Founder | CEO, Business Intelligence/Data Architect and Instructor** | May 1997 – May 2007 |
|  | **New York, NY** |

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| DSS Solutions, a 13-member boutique IT firm, with certified BusinessObjects professionals, Authorize BusinessObjects Public Training Center, Authorize BusinessObjects Reseller, Informatica Partner, Microsoft Solution Provider, Oracle Partner, and Hyperion Solutions Partner. As the lead instructor of all the DSS Solutions public and private BusinessObjects education services. Being the only certified BusinessObjects Report Script Trainer in the United States—ultimate responsibility was providing all the **Business Objects Americas’** BusinessObjects Report Script Training on their behalf. This responsibility was an opportunity to sharpen the teaching skills to eventually educate over **1,000** IT professionals on how to build BusinessObjects Universes, and over **5,000** business/IT users on how to develop BusinessObjects/Web Intelligence Reports.  However, at DSS Solutions the primary task was developing and utilizing the multitude of Vendor Partnerships (i.e., Business Objects, Hyperion Solutions, Oracle, Microsoft, and Informatica) that we have established. Then harmonize those partnerships together resulting in the resolve of specific client problems. For instance:   * Designing and Implementing a Sales Data Warehouse for **William Grant and Sons, Inc**. * Designing and Implementing BusinessObjects Reporting System for **Random House**, **Lucent Technologies**, and many more. * Utilizing BusinessObjects Report Script and Microsoft Visual Basic to develop the Fax Distribution System for **Citibank**. * Developed an Advance Login Management feature using Oracle 7.3 Roles functionality and the Business Objects ReportScript at **GE Capital Corporation**. * Developed an EIS front-end for **Bankers Trust** IS staff that would run a report on each senior banker and then converts a BusinessObjects report to an Adobe Acrobat PDF file for distribution over their Lotus Notes System. * Instructor of public and private Business Objects 4.x, 5.x, 6.x and XI R1/R2/3.x Training Classes for customers such as **Benjamin Moore Paints**, **Citibank**, **U.S. DoD**, **U.S. FAA**, **Goldman Sachs & Company**, **IBM**, **Keane**, **Unilever** * Business Intelligence/Data Warehouse Architect for customers such as **Benjamin Moore Paints**, **Kuehne + Nagel** * Report Development for Sales/Marketing, A/R. A/P, Supply-Chain, Web/Desktop Application, Value-Chain, Process Management Monitoring for customers such as **Benjamin Moore Paints**, **Citibank**, **U.S. DoD**, **U.S. FAA**, **Goldman Sachs & Company**, **HSBC Bank USA**, **IBM**, **Keane**, **Mallinckrodt Baker**, **Unilever** * Integrate BusinessObjects Enterprise System into their Desktop/Web Application System for customers such as **U.S. DoD**, **IPC**, **New York City Housing Authority**, **Russell Reynolds & Associates**, **Philip Morris International** * Migrated customer reports/system from BusinessObjects 5.x/Web Intelligence 2.7.x to BusinessObjects Enterprise 6.x to Crystal XI/BusinessObjects XI Release 2 to BusinessObjects XI 3.0 for customers such as **Benjamin Moore Paints**, **IPC**, **U.S. DoD**, **Simon & Schuster** * Developed and managed the Information Delivery (i.e., Data Warehouse/BusinessObjects Ecosystem) project plans for customers such as **Benjamin Moore Paints**, **Parson Brinckerhoff** * **Mallinckrodt Baker** (a leading Industrial Chemical provider) had a Data Mart that was close to completion; however, the BusinessObjects Universe and Reports were not. The client required ad-hoc reporting capability, plus several critical Sales & Finance Reports built that were initially created using data from their mainframe system. Therefore, working with the customer's Sales & Finance division produced the BusinessObjects Universe for both creating ad-hoc queries from BusinessObjects/Web Intelligence and building those critical Sales & Finance Reports that were required. For instance, users can now do trend-analysis report ad-hoc, by just dragging-and-dropping objects! As an added benefit, during the development process best-practices were transferred to the client’s IT team. Also, provided a mechanism to give the client continued support on-demand (resolving issues within hours instead of days). * **Goldman Sachs & Company** (a Global Investment Banking Leader) developed the Web-based Training Evaluation System and put in-place Web Intelligence in for reporting. Also, we hosted and maintained both the online system and Web Intelligence at the New York City office. As a result, we sufficiently reduced costs while maintaining the highest levels of quality support and security. * **Benjamin Moore Paints** actively participated and collaborated with the executive management team (i.e., CEO, COO/President, CFO, SVP of Finance, SVP of Sales, and SVP of Marketing) to transform the corporate culture into a fact-based decision-making organization. * Established and codified the Business Intelligence Competency Center (BICC) for **Benjamin Moore Paints**. The BICC creates a core within the organization of the right skills and capabilities that continually integrate the business strategic initiatives and processes (both technology and people) to achieve the evolving promise of Business Intelligence. Moreover, concepts of Scrum Agile Methodology Project Management were used to construct the BICC successfully. |

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| **Co-Founder | President, Business Intelligence Consultant and Instructor** | | September 1996 – May 1997 |
| **StreetKnowledge, Inc.** | | **New York, NY** |
| Co-Founded StreetKnowledge, an Authorized BusinessObjects Consulting and Education firm with friends before founding **DSS Solutions, Corporation**. Notable accomplishment(s) during my tenure:   * Opened two Authorized BusinessObjects Training Center locations in New York City and Washington, D.C., respectively. | | |
| **Microsoft Windows Developer, Independent Consultant** | July 1993 – August 1996 | |
| [Chase.com home page](https://www.chase.com/) | **Brooklyn, NY** | |
| * Maintained the InfoStation Reporter, a Windows-based in-house reporting tool. Responsibilities were to make User Interface enhancements and fix application errors as they are reported. (techStack: Microsoft Visual C++ 1.5x, Microsoft Windows 3.x SDK, DBVista 3.xx--a network-based DBMS--API, and PVCS 4.x.) * Assigned to the InfoStation 2000 team, which was task with developing a suite of tools. This suite comprises of a database Analyzer, Performance Measurement, Browser and Reporting tool. Responsibilities included but not limited to: * design the report tool interface * research the feasibility of using Microsoft Access 2.x as a replacement for the in-house report tool * design and implement: the SQL WHERE clause user-interface builder, an absolute & relative date series user-interface builder, a Template Scheduler, and the Portfolio Performance Measurement Tool   (techStack: Microsoft Visual C++ 1.5x, Microsoft MFC 2.x, Microsoft Windows 3.x SDK, Microsoft Visual Basic 3/4, Microsoft Access 2.x, Sybase CT-LIB API for System 10 SQL Server, Microsoft SourceSafe). | | |

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| **Microsoft Windows Developer, Independent Consultant** | April 1992 – July 1993 |
| [Morgan Stanley](http://www.morganstanley.com/index.html) | **New York, NY** |
| * As a member of the SoftSolutions Team, the responsibilities involved evaluating SoftSolutions for Windows for the Investment Banking Division (IBD) document management needs. One of the key responsibilities was to evaluate the SoftSolutions for Windows application for Windows standard compliance and how well it interoperates with Windows-based applications. After completion of the evaluation, all the findings were documented and distributed it throughout IBD IS management. * Also was a part of the MIDAS Software Development Team, responsible for the development of the Morgan Integrated Data Analysis System (MIDAS). Responsible for coding of the Windows based MIDAS Kernel and User Interface. The Kernel is the engine of the client application (i.e., MIDAS User Interface, Excel 4.0 add-in, and Lotus 1-2-3 add-in). (techStack: Microsoft C/C++ 7.00, Microsoft Windows 3.x SDK, Sybase Open Client for Windows DB-Library API, and PVCS 5.0.) | |

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| **Microsoft Windows Developer, Independent Consultant** | September 1991 – January 1992 |
|  | **Morristown, NJ** |
| * As a member of the Windows Software Development Team, responsible for the development of the Automotive Leasing/Accounting System, called VISION. Responsible for designing and coding the "Marketing with VISION" application. Marketing with VISION allows Leasing Consultants (Telemarketers) on-line retrieval/storage of client information. With Marketing with VISION consultants can produce vehicle configurations and generate lease quotes on-line. * VISION is a Microsoft Windows based application, uses a client-server architecture (the server being Sybase). NeXTStep design approach was used to provide a functional yet ascetically pleasing interface. (techStack: Microsoft C 6.00ax, Microsoft Windows 3.0 SDK, Sybase Open Client for Windows DB-Library API, and Powersoft PowerBuilder 1.00a.) * This project required exemplary communications skills in order to conduct user interviews, get user feedback and provide management with updated reports on the project's progress. | |
| **Microsoft Windows Developer, Independent Consultant** | September 1990 – August 1991 |
|  | **College Point, NY** |
| * As a member of the Windows Software Engineering Group, responsible for the development of a Windows based Digital Signal Processing CASE tool, called WASPP (Windows Assisted Signal Processing Program). Responsible for designing and coding of the Communication Server and the Communication Monitor for Windows 3.0, using the TCP/IP Internet Protocol Suite and RS-232c asynchronous communication technology. (techStack: Microsoft C 6.00a, Microsoft Windows 3.0 SDK, and 4.3 Berkeley Software Distribution (BSD) Socket Interface). The tools served as the interface to the U.S. Navy's Advanced Modular Signal Processing/2 Passive Sonar System, project name V3. * Served as an internal TCP/IP consultant to the Processor Element (PE)/Cluster Controller Operating System Development Engineering Team at EDO. | |

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| **IT, Independent Consultant** | December 1989 – September 1990 |
|  | **New York, NY** |
| * Outside general advisor to the administrative staff's networking and computer modernization Windows-based efforts. Provided the staff with the training and technical support for the many software applications and hardware introduced by the efforts. Also, designed a Windows based Student Referral System for the Admissions/Student Affairs department. (techStack: Omnis 5 (DBMS) for prototype development; Microsoft C 6.00 and Microsoft Windows 3.0 SDK for final development.) | |

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| **IT, Independent Consultant** | December 1989 – September 1990 |
|  | **New York, NY** |
| * Outside general advisor to the administrative staff's computer modernization effort. | |

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| **IT, Independent Consultant** | October 1988-March 1990 | |
| Franklin A. Shaffer Associates, Inc. | **New York, NY** | |
| * Advised the administrative staff on their computer modernization effort. Also, provided the team with the training and technical support for the many software applications and hardware introduced by the computer modernization effort. | | |
| **Windows Developer** | | January 1989-December 1989 |
| PARADIGM Software Inc. | | **Jersey City, NJ** |
| * As New Technology/Technical Support Specialist the responsibilities included beta testing and reporting on new products. These products included commercial software (both Windows and Macintosh based), hardware, and operating systems. These technologies often cross various single and multi-user platforms. Also, provided client training and support to PARADIGM Software’s customers. * Later, join the programming team at PARADIGM Software, assisted in the designing and coding of their Windows-based FAS (Financial Accounting System) and Library System. (techStack: Omnis Quartz--DBMS, Microsoft C 5.x, and Microsoft Windows 2.11 SDK.) FAS application developed for Columbia-Presbyterian Medical Center, New York City, NY. | | |
| **Senior Sales Associate** | | September 1988-December 1988 |
| [http://links.net/vita/chi/pix/softetc.lg.gif](http://www.google.com/url?sa=i&rct=j&q=software+etc&source=images&cd=&cad=rja&docid=A7rqsWludBX1cM&tbnid=vzY11ZxEib-eGM:&ved=0CAUQjRw&url=http://links.net/vita/chi/softetc.html&ei=uTd_UdPMJrHJ0gHug4DwCw&bvm=bv.45645796,d.dmQ&psig=AFQjCNH84TyX3rmWkplinIuI2dCODp4pGQ&ust=1367377902824215) | | **New York, NY** |
| * Started as a Sales Associate in 1988 and was quickly promoted to Senior Sales Associate. As a Senior Sales Associate, the responsibilities included managing the sales staff, product support, and the advising and implementation of methods to increase store sales. | | |

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| **Instructor** | October 1986 – August 1988 |
| Computer Knowledge Enterprises | **Brooklyn, NY** |
| * Started a service organization in 1986, to teach young children and their parents how to use their personal computers. The curriculum included, for example, computer basics, programming in LOGO, BASIC, and PASCAL and learning how to use various general-purpose software applications (i.e., word processors, and spreadsheet applications). | |
| **Developer** | Summer 1987 |
| [SUNY Downstate Medical Center](http://www.downstate.edu/) | **Brooklyn, NY** |
| * Summer intern, assisting in the development of Subject Tracking System. (techStack: R:Base 5000 and Microsoft Pascal.) | |