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**Books**

*Cloud Computing: Assessing Risks,* 2012

*Enterprise Information Integration: A Pragmatic Approach,* 2005

*Manager’s Guide to Distributed Environments,* 1997

**Innovation & Invention Experience**

*The following are examples where I have provided innovative solutions and products for companies that resulted in significant positive impact for the business. This impact came in the form of revenue growth, brand awareness or customer satisfaction.*

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| Year | Client/Employer | Description |
| 2019 | **Automation Anywhere** | Created and made available through company online store extensions to platform for integration with Amazon Web Services, JSON processing, HTML forms and Microsoft Teams. Video available. |
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| 2017 | **DXC** | Led team in the migration from existing SOA/API-based customer services platform for major telecommunications provider to microservices architecture. Formulated microservices design based on pure business services and developed roadmap for decomposition of current architecture. |
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| 2013 | **EMC** | Led the team delivering a e-archive/e-discovery platform for a large international bank. The platform was deployed across Europe and Asia. Designed a multi-tiered storage capability that allowed the bank to scale incrementally while speeding the processing of supporting legal requests from weeks to hours. |
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| 2010 | **Merlin International** | Led team developing unique video capture, distribution and analysis platform for Department of Defense. Platform captured high-definition video in the field and tiered storage back to U.S.-based bases for permanent storage. Provided desktop tooling that allowed analysts to stabilize jumpy video, annotate and share specific time periods in multi-user collaboration environment. Video demonstration available. Video available. |
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| 2009 | **Avorcor** | Took management of, productized and formulated next-generation for TakeCharge Technologies’ spend management application. Original version was a web-based application with a Visual Basic back-end. Corrected issues and added new features for existing customers. Redesigned the next version to redefine how businesses handled spend management and P-Card processing. |
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| 2007 | **Avorcor** | Created microservices-designed, SaaS -based multi-retailer loyalty solution that allows one card to support multiple retailers. Unique loyalty points calculation engine supported delivering bonuses based on programmable promotional configurations. The platform supports retailers, restaurants, golf courses as well as offering multi-vendor single-card loyalty plans. Demo available. |
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| 2005 | **Avorcor** | Pioneered digital transformation and microservices design for application modernization. Created microservices-designed, cloud-native platform to support warehouse management, omni-channel retailing and logistics that provided new web-services interfaces to existing monolithic and closed-system applications.  Featured on evening news and USA Today for my innovative retail dressing room solution.  Use cases demonstrating how software drove digital transformation can be provided upon request. Video also available. |
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| 2004 | **Software AG** | Pioneered Enterprise Information Integration. Co-developed ontology-based Web-services integration product with major sub-prime credit card provider based on my minimal viable product. Captured experiences in my 2005 book Enterprise Information Integration: A Pragmatic Approach. Software AG ultimately commercialized the product for general sale. |
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| 2001 | **Ikimbo** | CTO and executive team member of venture-backed software company. Envisioned and led engineering of a platform for secure, team-based communications delivered as SaaS model. Allowed groups to form dynamically and share files in a secure forum. Platform integrated desktop and mobile (RIM, Palm) in real time instant messaging with the ability to incorporate bots that would pull data from systems of record. In 2001, delivered equivalent capability as Microsoft Teams or Slack does today. |
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| 1999 | **XMLSolutions** | CTO and executive team member of venture-backed software company. Pioneer in B2B e-commerce by envisioning and leading development of the industry’s XML/EDI translator. Additionally, I was a founding member of the ebXML community and creator of one of the first ebXML registry/repository implementations. |
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| 1998 | **NC.Focus** | I founded NC.Focus as a software development consultancy and then converted it into the leading analyst firm on XML, Java and distributed computing. Our client list included the Who’s Who of XML and Java software companies, including: Microsoft, Sun Microsystems, Webmethods & IBM.  Developed my own server to implement a paywall for content that leveraged XML for content and controls. XMLSolutions acquired NC.Focus in 1999 for rights to this server and bring me on at CTO.  Pioneered the use of XML for messaging and integration. Invited to contribute book for the Charles Goldfarb XML book series, by Charles Goldfarb. |
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| 1995 | **Private Consultant for Banker's Trust** | Developed a means of allowing traders to leverage Excel much the way that Office 365 works today regarding saving and restoring from the cloud. Developed a custom OLE Storage implementation that used a SQL database to allow Excel to read and write spreadsheets from the database just as they would their desktop. This allowed the firm to ensure the data was backed up without requiring the traders to change their behavior. |
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| 1993 | **Private Consultant to Tullet & Tokyo** | Developed one of the first shared software services on Wall St. Created a CORBA-based zero-coupon calculator that could be called from Lotus 1-2-3 and Excel through plug-ins. This allowed the firm to centralize their business logic behind zero-coupon calculations without having to redistribute software every time there was a change in the business rules. |
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| 1992 | **Cheyenne Software (acquired by CA)** | Product Manager and Engineering Lead for Monitrix. Turned a simple Netware 3.x Monitoring network monitoring tool into an enterprise-scale IT asset management and network management tool. Formulated the concept of services-oriented architecture at Cheyenne driving common shared services for alert management and discovery across all Cheyenne products as Netware Loadable Modules (NLM). |
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| 1990 | **EMI Music Worldwide** | Leveraged Netware’s desktop client for DOS and Windows clients and Netware’s user access controls to develop portal application that provided secure access to data and applications controlled by group management. Effectively providing equivalent functionality of today’s Active Directory Services. |
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| 1988 | **Citibank Credit Card Division** | Creating one of the first implementations of a robotic process automation (RPA). Used an Attachmate 3270 board inside a PC to access mainframe applications and wrote an application to script the automation the retrieval of data based across multiple screens as well as updates based on user-defined logic.  The result was that Citibank could close their facility in Huntington, LI and replace the data entry workers with banks of PCs running the code I developed. |