# Don Krapohl

Portfolio online at www.augmentedintel.com

#### SUMMARY

I have extensive experience in data mining, data analysis, data modeling, and data architecture and have delivered high quality solutions in several industries. My portfolio includes:

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| MBA | openNLP | Metrics development | AJAX |
| RapidMiner, Weka | Natural Language Processing | Java, Eclipse | Statistical analysis |
| MCITP: BI | Data structures/modeling | C#, C++, ASP.NET | Data warehousing |
| MCTS: .NET 2.0 Web C# | Architecture | SQL Server, SSIS/SSAS/SSRS | Machine Learning |
| Hadoop | Mahout | SharePoint development | Big Data |

#### PROFESSIONAL EXPERIENCE

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| 03/12-Present | Strategic Architect | GDIT Tampa, FL |

* I provide data and analytics architectures as a capability delivery and business development vehicle, specifically within the scope of business intelligence and “big data”.
* Built the first enterprise-level software engineering/data mining organization for General Dynamics’ Intelligence Solutions Division.
* Led efforts yielding split resource investment in R&D between GDIT and Microsoft on “big data” provision for a major COCOM.
* Published multiple technical white papers on Business Intelligence, data mining, metrics development, statistical analysis, creating measurable organizations, organizational transition plans, and ITIL practice guidance for performance management.
* Participated in agile C# MVC coding of a major CRM using Entity Framework, bootstrap, knockout, and jquery.
* Led envisioning, business development, and execution of massively parallel processing architectures for analytics (Big Data) using Hadoop, Hadoop on Azure, openNLP (for natural language processing), Tableau, Pig, Mahout (for machine learning), RapidMiner, PowerPivot, SQL Server, Oracle, and other technologies.
* Evaluated and analyzed appropriate algorithms for machine learning and special-purpose data mining.

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| 07/10-03/12 | Chief, Software Engineering (GG-14) | US Air Force Patrick AFB, FL |

* I provided leadership in business intelligence and architecture for the Air Force Technical Applications Center, the US National Data Center, and the US Atomic Energy Detection System.
* Created multiple ETL processes, stored procedures, and data migrations to/from multiple data stores.
* Build multiple Analysis Services drill-through cubes using snowflake schemas, conformed dimensions, and junk dimensions.
* Lead architecture for multi-Agency data warehouses, line of business applications, and system integrations.
* Negotiated, led, implementation, and developed web parts for the first SharePoint platform at the Center in SharePoint 2010.
* Performed enterprise data architecture, governance, and planning in Microsoft SQL Server, Oracle, and distributed storage.
* Developed architecture, data services, security, and stored procedure for ETL, data connections, and dashboards for SharePoint.
* Led and developed multiple high-speed distributed computing initiatives for massive data ingest and real-time data analysis.
* Worked with scientific community on research and development in statistical analysis and parallel computing.
* Hands-on development of SharePoint web parts, database feeds, dashboards, and other data elements in SharePoint 2010.

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| 03/07-07/10 | Chief Systems Architect (Contract) | Army Reserve/Teksystems Atlanta, GA |

* Provided development and architecture for enterprise-level systems written in the Microsoft BI stack (SSAS, SSIS, SSRS), WPF, C#, ASP.NET, VB6, COM+, .NET Framework 4.0, Oracle, SQL Server 2005-2008R2, Microsoft Dynamics, and SharePoint 2007.
* Designed and assisted in coding of horizontally scalable, service-oriented framework using multiple design patterns including factory, abstract factory, bridge (for Object Relational Mapping to the persistence layer), and page controller (by MVP).
* Employed ERWin and Visio for architecture, Weka and RapidMiner for pre-analysis, and Analysis Services for data mining.
* Created the standards, procedures, metrics, processes, and policies for system development and database management.
* Created full system architecture (application, database, infrastructure, etc.) and multi-year transition plan to set execution priorities.
* Re-architected and led execution of complete BI technology migration from Cognos to Microsoft BI (Analysis Services, Reporting Services, and Integration Services) using team of four in 18 months with no system outages or data loss.
* Drove the Army Reserve enterprise adoption of SharePoint, Microsoft BI, service-oriented design, and Team Foundation Server.
* Generated data structures, stored procedures, continuity, and optimization of SQL Server 2005-2008 R2 enterprise databases.

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| 06/98-03/07 | Solutions Architect/Sr. SW Engineer (Contract) | TekSystems/Multiple Ctr Nashville, TN |

* Lead architect for Coca-Cola's Microsoft Enterprise Business Intelligence Global Practice. Architect for Deloitte, Ingram Entertainment, Kroger Corporation, HCA, AIM Healthcare, US Census Bureau, and others.
* Constructed Coca-Cola’s global Stewardship data warehouse capturing workforce, OSHA (and international-equivalent), environmental, and other disparate sources for data mining in all countries in which Coke operates in SharePoint and SQL Server.
* Served on the global architecture team that designed solutions for the Deloitte global practices and set global standards for complex architecture and best practices.
* Designed scalable distributed business intelligence platform for Coca-Cola bottler data management with ad-hoc reporting against multi-dimensional (snowflake and star schema) MOLAP data stores using Analysis Services, Integration Services, Reporting Services, and SharePoint 2003.
* Optimized OLAP and OLTP data structures, attribute design, index tuning, query tuning, and aggregate indexing for performance.
* Authored data mining systems integrating full supply chain with categorization, predictive analytics, and data visualization tools.
* Developed proficiently in/for ASP.NET, classic ASP, C#, SharePoint development, AJAX , T-SQL, XML, Web Services, SQL Server 6.5-2008R2, SSIS, SSRS, SSAS, Team Foundation Server, SOA, multiple design patterns, OLAP, jQuery, and SharePoint 2007.

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| 09/02-06/03 | Adjunct Instructor, Geology | Middle TN State Univ. Murfreesboro, TN |

* Taught introductory geology courses and labs.
* Held scheduled office hours and tutored students

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| 01/97-06/98 | Software Engineer - Robotics | BecTec Inc Nashville, TN |

* Authored just-in-time automation systems for HVAC manufacturing plants.
* Wrote user interfaces in Visual Basic 3, drivers in C++, and robotic controllers in assembler.
* Performed extensive R&D for program stamping and product security as well as performance characteristics of plug-in IO modules.

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| 09/89-09/92 | Infantryman (11B) | US Army Washington, DC |

* 3d U.S. Infantry (The Old Guard). Served in A Co., Commander-In-Chief’s Guard (Presidential Escort). Duties included Presidential support duties, escort for Heads of State, and maintenance of regular infantryman knowledge, skills, and qualifications.

#### EDUCATION

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| May 2005 | Northcentral UniversityPrescott, AZ, MBA, Specialization in Management of Engineering and Technology |
| May 1999 | Middle Tennessee State UniversityMurfreesboro, TN, MS, Computer Science. Not awarded. Included assembler, C++, discrete structures, and others. |
| May 1997 | Middle Tennessee State UniversityMurfreesboro, TN, BS, Geology. Included 19 hours of math including statistics and differential and integral calculus. |

#### CERTIFICATIONS / AWARDS

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| ITIL Foundations, 2008 | COMPTIA Security+ |
| Microsoft Certified IT Professional (MCITP): Database Dev. | Microsoft Certified Technology Specialist (MCTS): SQL Server 2005 |
| Microsoft Certified IT Prof. (MCITP): Business Intelligence | Microsoft Certified Technology Specialist (MCTS): Business Intelligence |
| Microsoft Certified Tech. Specialist (MCTS): .NET 2.0 Web | Project Management Professional (PMP), 2006-present |
| Employee of the Month, AIM Healthcare, General Dynamics | Registered Professional Geologist, State of Tennessee, 1997 |

#### SKILLS MATRIX

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| Skill | Level | Yrs. Exp. | Last Used  |
| SQL Server 6.5-2012, T-SQL | Expert | 12 | 2013 |
| Oracle | Novice | 1 | 2013 |
| C# | Advanced | 10 | 2013 |
| Java | Moderate | 4 | 2013 |
| SQL Server Analysis Services(SSAS) | Expert | 10 | 2013 |
| SQL Server Reporting Services(SSRS) | Expert | 8 | 2013 |
| SQL Server Integration Services(SSIS) | Advanced | 7 | 2013 |
| MVC 3.0 | Moderate | 2 | 2013 |
| ERWin | Advanced | 3 | 2013 |
| UML | Advanced | 10 | 2013 |
| System Tuning | Advanced | 9 | 2010 |
| WCF | Moderate | 2 | 2013 |
| Cognos | Moderate | 3 | 2010 |
| Lotus Notes / Lotus Domino | Moderate | 3 | 2004 |
| Hadoop | Moderate | 2 | 2013 |
| RapidMiner | Moderate | 2 |  |
| openNLP | Moderate | 2 |  |

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| Skill | Level | Yrs. Exp. | Last Used  |
| XML | Advanced | 10 | 2013 |
| Multiple legacy lang. (see resume) | Varies | 16 | 2013 |
| Data/technology migration | Expert | 14 | 2013 |
| Cloud, federation, SAAS design | Moderate | 3 | 2013 |
| Service-oriented design | Expert | 12 | 2013 |
| Microsoft Dynamics CRM, AX | Moderate | 3 | 2013 |
| Microsoft SharePoint | Moderate | 4 | 2013 |
| Object-relationship mapping (ORMs) | Advanced | 3 | 2011 |
| Data mining | Moderate | 5 | 2013 |
| Business Intelligence Concepts | Expert | 10 | 2013 |
| Data Warehouse Concepts | Expert | 10 | 2013 |
| Data Standards (EDI, HL7) | Moderate | 3 | 2010 |
| Data Modeling (physical, logical) | Expert | 14 | 2013 |
| Eclipse | Moderate | 3 | 2013 |
| Weka | Moderate | 2 | 2013 |
| SVD, Latent Semantic Analysis | Moderate | 3 | 2013 |
| Cluster analysis, data classification | Moderate | 6 | 2013 |

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