MEGAN MASANZ

9158 Tyne Lane

Inver Grove Heights, MN 55077

https://meganmasanz.azurewebsites.net

651-308-3365

meganmasanz.work@gmail.com

PROFESSIONAL SUMMARY

Lead Data Intelligence Technical Architect enabling data scientists and research teams to access disparate data in a cohesive ecosystem enabling model deployment to drive business value. Leverage new technologies and techniques to automate data cleansing and analysis. Adept at paving a pathway to data science via computer science.

AREAS OF EXPERTISE

Languages	Python (PySpark, Django, Flask), SQL, JavaScript (D3.js), .NET (C#, VB – ASP.NET Web API, MVC), Scala, R
Data Storage	Hadoop, MongoDB, Splunk, Azure Blob Storage, Azure Data Lake, CosmosDB, SQL Server, Snowflake, Teradata, Delta Lake, Databricks
Visualization	SAP Lumira, Power BI, D3
Data Curation	Google schema validator, Azure Data Catalog, schema.org
Search Framework	Azure Cognitive Search, Splunk
IoT Platforms	PTC ThingWorx, Exosite, AWS IoT, Azure IoT Suite
Model Management	Azure ML Services
Automation	Bitbucket/Stash, Jira, TeamCity, Octopus Deploy, Azure DevOps, VSTS, Github
SCADA Systems	Wonderware (Application Server, InTouch, Historian, Historian Client), GE (iFIX), Rockwell (FactoryTalk SE/ME), SAP MII, NServiceBus
MES/ERP	SAP, BPCS, IMES, 3MMES

PROFESSIONAL EXPERIENCE

3M COMPANY, ST. PAUL, MN   **2017 – CURRENT**
LEAD DATA INTELLIGENCE TECHNICAL ARCHITECT
- Established self-service analytics ecosystem orchestrating data movement, transformation, analysis, and model deployment leveraging Azure PaaS offerings
- Architecture focused on self-service, scale and cloud economics
- Leveraging DevOps projects to provide CI/CD deployment of Azure resources including:
  - MVC C# Web Application to configure pipelines and data lake security
  - CosmosDB implementing schema.org definition of data set to provide dataset traceability and transformation and analysis workflow with Databricks
  - Data Factory with dynamic content ensuring scalability of data ingestion into data lake
  - Model deployments through Azure ML SDK and Databricks APIs

3M COMPANY, ST. PAUL, MN   **2016 – 2017**
ADVANCED ANALYTICS SPECIALIST
- Technical Specialist developing strategy to redefine the ISA-95 data model to enable analytics from the shop floor to the customer experience. Delivering data using new technologies to reimagine dashboarding from Hololens to D3 KPIs

3M COMPANY, ST. PAUL, MN   **2013 – 2016**
IT ADVANCED SPECIALIST
- Technical Analyst utilizing agile methodology to manage the lifecycle for source code control, build automation, and RESTful API design for the maturing of manufacturing application receiving 2016 Pyramid of Excellence for IT/BT Organization
- Delivering operational intelligence through architecting solution to ensure visibility to issues impacting availability, response time, application performance through Splunk framework

INVENSYS, ST. PAUL, MN   **2013 – 2013**
PRINCIPLE SUPPORT ENGINEER
- Developed solution to proactively monitor KPIs for Wonderware Cloud based Historian for SaaS clients
- Supported manufacturing companies within SCADA integration landscape

3M COMPANY, ST. PAUL, MN   **2006 – 2013**
SENIOR IT ANALYST
- SCADA technical lead for Process Integration Team (PIT) in 3M Manufacturing IT delivering MES & ERP integration to enable data-driven decision making to drive process improvements
- Directed creation of training modules provided by plant training department. Provided training for over 100 operators, process engineers and administrative plant personnel over 3 shifts within 1 week
- Developed .NET class utilizing Reflection to manage complex dependency chains and version upgrades using .NET dll management to replace vendor management of dlls

3M OPTICAL SYSTEMS, ST. PAUL, MN   **2005-2006**
ADVANCED IT ANALYST
- Recipe download IAS objects to incorporate in memory datasets for parallel processing of process variables and error handling
- Led Industrial Application Server (IAS) Users Group implementing standards across 3M

3M Process Instrumentation & Control Systems, St. Paul, MN   **2004-2005**
Systems Engineer
- PLC and SCADA systems programmer implementing recipe download functionality

EDUCATION

UNIVERSITY OF ILLINOIS, CHAMPAIGN-URBANA, IL   2017-PRESENT
COMPUTER SCIENCE-DATA SCIENCE M.S.

UNIVERSITY OF ILLINOIS, CHAMPAIGN-URBANA, IL   2004
COMPUTER ENGINEERING B.S., MATH MINOR

COLUMBIA BUSINESS SCHOOL   2016
Building & Leading Effective Teams Certificate of Completion