Tim Newbold

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PROFESSIONAL SUMMARY

Strategic IT and analytics leader with extensive experience in data strategy, enterprise IT leadership, software engineering, and digital transformation. Proven success in aligning IT initiatives with business objectives, leveraging AI, analytics, and cloud technologies to drive operational efficiencies and business intelligence. Adept at leading cross-functional teams and spearheading innovative technology solutions.

TECHNICAL SKILLS

- **Leadership & Strategy**: IT Strategy, Business Intelligence, Data Governance, Cross-Functional Collaboration
- **Cloud & Enterprise Technologies**: Azure (Data Factory, Databricks, ML Studio, Data Lake), Oracle, Teradata, SSIS, Tableau, Power BI
- **Machine Learning & AI**: Linear Regression, Logistic Regression, Artificial and Convolutional Neural Nets, Transformers, LLMs, Time Series, Decision Trees, Random Forest,
- **Python Libraries**: Pandas, NumPy, Scikit-Learn, PyTorch, TensorFlow, Seaborn, Matplotlib
- **Data Science & Analytics**: PCA Analysis, Hypothesis Testing, Statistics, Cross-Validation, Bootstrapping
- **Software & Development**: SQL, Python, C#, DevOps, GIT, JIRA, Agile & IT Service Management

PROFESSIONAL EXPERIENCE

M&T Bank | Buffalo, NY
SVP – Analytics and Data Manager | 10/18 - 11/24

Strategic leader overseeing the development and management of Business Banking's data analytics and reporting infrastructure. Spearheading initiatives to enhance data integration, analytics, and reporting capabilities to support business objectives and drive decision-making.

- Strategic Leadership
  - Lead the strategic vision for the data engineering and analytics team within the Business Banking division.
  - Collaborated with senior leadership, sales strategy, risk management, and other divisions to develop strategic roadmaps, manage stakeholder demand, and prioritize projects.
- Data Integration and Management
  - Oversee the integration of new data sources and the export of data to other analytics groups across the enterprise.
  - Implement and maintain ETL processes using Microsoft SSIS to transition from manual data processing to automated workflows.
- Innovative Solutions
  - Lead the development of Python-based analytics and machine learning models to support business analysis and decision-making.
  - Ensure the data warehouse supports future business needs by continuously evaluating and integrating cutting-edge technologies and methodologies.
- Data Warehousing
  - Architect and lead the rebuild of the division's data warehouse using modern data pipeline frameworks and Kimball Snowflake methodologies.
  - Design and implement a multi-layered data model within Microsoft SQL Server

Integer (formerly Greatbatch Inc.) | Buffalo, NY
Software Engineer | Project Manager | 2/16 - 10/18

Hybrid role combining software development and project management, focused on manufacturing applications and enterprise software solutions.

- Capacitor Manufacturing Applications: Developed .NET applications (C# & MSSQL) to streamline manufacturing processes from creation to shipping.
- Tubing Manufacturing Application Rebuild: Led requirements gathering, stakeholder communication, and technical resource management to modernize manufacturing applications from Centura Team Developer to C#/MSSQL.
- EHS&S Product Stewardship: Managed implementation of a Vendor SaaS solution, partnering with stakeholders to define technical requirements and overseeing internal SQL (Oracle) analysis.
- Supplier Performance Scorecards: Enhanced application functionality to improve supply chain reporting (SCARs & On-Time Delivery).

Citigroup | New York, NY
AVP - Senior Data Analyst - IT | 9/12 - 2/16

Data Analyst for Citi's Master Reference data quality platform,

- Managed multiple simultaneous projects through the development lifecycle for Securities and Pricing reference data initiatives.
- Oversaw the implementations of multiple projects during the migration from legacy Master Reference Data system to a new Reference data system.
- Consolidated Securities and Pricing book of work to create a centralized project-tracking tool that would be leveraged by stakeholders to deliver project status & priority of upcoming projects
- Partnered with senior leadership to enhance financial reporting and strategic decision making by creating an SQL automated cost allocation model
- Worked with the Data Governance team, business domains and stakeholders to plan, coordinate, monitor and assist in the implementation of firm wide Chief Data Office initiatives regarding Data Quality Scorecards

Algonquin Studios | Buffalo, NY
Software Engineer| 10/11 - 9/12

- Software Engineer responsible for building and maintaining .NET Web applications.

TECHNIAL PROJECTS

NFL Analytics Dashboard (Python, MSSQL, Power BI) | 2024
- Built a Python-based API that stores data in SQL Server for predictive analysis.
- Designed a Power BI dashboard for real-time insights into player and team performance.

F1 Machine Learning Prediction Engine (Python, MSSQL, XGBoost) | 2024
- Developed a machine learning model using XGBoost to predict Formula One race outcomes.
- Integrated SQL-based data processing and visualization using Power BI.

EDUCATION

MIT – Professional Education Program | Remote
Applied Data Science: Leveraging AI for Effective Decision Making | Expected March 2024

University at Buffalo, The State University of New York | Buffalo, NY
Bachelor of Science in Business Administration (MIS & Finance) | May 2011