JOHN MADDAUS

Greater Boston Area

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SUMMARY

Hands-on Architect and Engineer with experience modernizing legacy systems in government and financial sectors. Expert in automating complex workflows while ensuring compliance. Transitioning from leadership back to a dedicated Engineering role to leverage strong algorithmic and architectural capabilities.

TECHNICAL SKILLS

Languages: Python, SQL, T-SQL, PowerShell, Perl, PHP
Tools: ETL/ELT, pandas, NumPy, Power Platform, Nintex

Infrastructure: Cloud (Azure/AWS), Serverless, MySQL, SQL Server
Sec/Compliance: NIST SP 800-53, SOC 2, FISMA, PCI DSS, GLBA, IAM

EXPERIENCE

Information Systems Manager

State of New Hampshire   Concord, NH   May 2021 – Present

- Migrated mission-critical agency systems to Microsoft Azure, maximizing system uptime and reducing annualized net hosting costs by over 20%, by directing a comprehensive lift-and-shift strategy to a scalable hybrid environment.
- Accelerated data migration timelines by 50% by developing custom Python middleware libraries for automated data preparation, processing, and legacy system integrations.
- Reduced average financial process turnaround time by over 80%, replacing legacy paper-based processes with automated modern workflows using Nintex Workflow Cloud and Microsoft Power Automate.
- Expanded the digital evidence ecosystem to support over 300 IoT endpoints by leading the integration of edge computing solutions including Axon Body Cameras, mobile infrastructure and thousands of RFID tags.
- Ensured continuous agency compliance and data integrity by enforcing NIST SP 800-53 controls and advising on statewide policy as a member of the NH Cybersecurity, Privacy, and Accessibility Advisory Committee.

Cloud Engineer / Independent Consultant

Shrike Data, LLC   Remote   Jan 2020 – Dec 2021

- Architected data transformation platform on AWS, utilizing Lambda (Python) to automate scripts triggered by S3 events.
- Deployed and secured EC2 instances to host SFTP endpoints, bridging external vendors and client data pipelines.

IT Modernization Lead / Production Manager

CBI/ABS   Nampa, ID   Jun 2019 – May 2021

- Developed a custom Python migration library (pandas, NumPy, multiprocessing) to parse proprietary legacy data formats, parallelizing processing and enabling the retirement of unsupported financial systems.
- Engineered integrations for credit reporting and payment processing, ensuring strict compliance (PCI DSS, GLBA, FCRA).
- Achieved SOC 2 Type 2 certification by leading the technical implementation of security controls and infrastructure auditing.
- Boosted revenue by over 30% by optimizing operations workflows and automating portfolio management.
- Piloted an NLP-driven virtual agent to generate dynamic near-real-time prompts for call center staff based on live call transcription, reducing training time and error rates.

Ops Manager (Systems) << Data Architect << DBA

Delta Management Associates, Inc.   Phoenix, AZ   Feb 2011 – May 2019

- Saved 1,000+ labor hours of manual administrative work annually using Perl, Python and SQL automation to automate data ingestion across hundreds of client and vendor interfaces.
- Reduced the execution time of core reporting and business intelligence by over 95% through separating OLTP/OLAP database concerns, reengineering complex ETL pipelines and optimizing hundreds of SQL stored procedures.
- Generated double-digit revenue gains with custom composite ML credit risk/recovery scoring models using Python, SQL, and R.
- Increased integration development speed and system stability with legacy data architecture modernization and standardization.
- Hardened agency to comply with FISMA contracting standards by implementing cost-effective static-grid MFA.
- Improved customer contact rates by more than 20% with custom IVR decision trees and self-service agents.

EDUCATION & CERTIFICATIONS

BS Computer Science (Expected Q1 2026)	**Western Governors University**
BS Computer Information Systems	**University of New Hampshire**
Azure Systems Architect Expert (AZ-305)	Microsoft
Azure Administrator Associate (AZ-104)	Microsoft
Certified Information Systems Security Professional (CISSP)	ISC2