

MILELE HALLINGQUEST

AI Automation Engineer · Senior Data Analytics Professional · Founder
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SUMMARY

Senior data analytics professional and AI automation engineer with 15+ years of experience designing intelligent systems that automate complex business processes and surface actionable insights. Founder of two AI-powered platforms. Deep expertise in SQL, Python, LLM integration, and full-stack deployment across education, telecommunications, media, and banking; with a clear trajectory toward data science.

FOUNDER EXPERIENCE

Founder & CEO - ScholarDollarz

2024 – Present

scholardollarz.com - AI Scholarship Intelligence Platform

- Built and deployed a full-stack scholarship discovery platform (FastAPI + MongoDB Atlas + NVIDIA NIM) serving students across all 50 states
- Indexed and AI-verified 4,600+ scholarships with a three-tier URL confidence/ risk system (HIGH / MEDIUM / LOW) for source quality tracking
- Engineered a self-hosted SearXNG search pipeline feeding into LLM-powered structured data extraction across 4,600+ scholarship records
- Solved a complex state filtering challenge using pre-computed per-state boolean columns and reverse-exclusion logic, eliminating false negatives
- Migrated from CSV to MongoDB Atlas as single source of truth, enabling real-time admin edits without redeployment

PROFESSIONAL EXPERIENCE

Patient Services Advocate / Internal Tooling Developer

2024 – Present

Oak Street Health (Contract)

- Designed and built Care Copilot, a single-file HTML/JavaScript workflow tool to accurately route my own patient inquiries to correct Epic Contact Hub workflows in real time
- Engineered a concept-bag intent-matching system (priority-scored keyword and synonym rules) replacing rigid exact-phrase matching, improving personal routing accuracy across scheduling, transportation, prescription, lab, and service recovery workflows
- Continuously validated and updated routing logic against source documentation to keep the tool aligned with evolving call center procedures
- Applied data engineering practices, including structured rule objects, automated JS validation, and a companion Excel reference extracted from the app's logic, to build a reliable, self-service tool with potential to improve routing quality and consistency if adopted more broadly across the call center

Adjunct Instructor & Team Lead

2013 – 2024

Southern New Hampshire University

- Taught and developed curriculum for Business Intelligence & Reporting and Business Systems Analysis courses - covering Tableau, Power BI, SQL, statistical analysis, and data-driven decision-making
- Led hands-on predictive analytics and data modeling projects, guiding students through real-world business problem solving
- Delivered instruction on data warehousing, ETL processes, and database management
- Evaluated instructor performance as Team Lead, ensuring course quality, engagement, and responsiveness to student needs

Data Manager

2022

Rise Inc.

- Implemented real-time data tracking system for get-out-the-vote campaigns, replacing Excel-based manual data entry with database tools
- Automated daily report delivery to identify trends across national and state organizing programs
- Established ETL processes using SQL to improve data quality control of user data

Reporting Analyst

2015 – 2016

iQ Media, Inc.

- Delivered actionable insights on multi-channel campaign performance, contributing to 5% increase in new business
- Developed proof-of-concept sample reports supporting the sales team, leading to measurable revenue growth
- Reduced data processing time by 30% by implementing ETL processes for report generation
- Developed SQL scripts to resolve data quality issues including validation and cleansing procedures

Business Analyst / Project Manager

2012 – 2014

Proximo, Inc.

- Society for Neuroscience (SFN): Documented requirements, data structures, and process flows to determine KPIs and recommend BI tool improvements - uncovering significant data duplication
- Asia Society: Automated survey judging packets and company reports, reducing delivery time by five days ahead of schedule
- CFSA: Managed delivery of a new cloud-based member credit reporting application, reducing manual reporting and improving member satisfaction

BI Reporting Analyst

2005 – 2006

EarthLink, Inc.

- Drove automation initiatives that reduced report generation time by 10% and eliminated manual business operations tasks
- Collaborated with Marketing, Sales, and Finance to gather reporting requirements and improve decision-making
- Developed SQL scripts to resolve ETL data quality issues, improving accuracy and efficiency

EARLY CAREER**IT Academic Advisor** - Western Governors University (2010–2012)**Technical Support Analyst** - Support.com (2008–2010)**Operations Manager Consultant** - Systemware / AON Integramark (2005–2006)**Network Analyst** - AmSouth Bank / Regions Bank (2003–2005)**Logistics Analyst** - CHEP (2002–2003)**EDUCATION****MS, Information Technology - Information Assurance** University of Maryland Global Campus**BS, Statistics** University of South Carolina, Columbia, SC**TECHNICAL & PROFESSIONAL SKILLS****Languages:** Python, SQL, JavaScript**AI / ML:** NVIDIA NIM, LLM Integration, RAG, Agentic Workflows, Prompt Engineering**Backend:** FastAPI, REST APIs, Docker**Databases:** MongoDB Atlas, PostgreSQL, SQL Server**Analytics & BI:** Power BI, Tableau, Excel, Pandas, Statistical Analysis**Infrastructure:** Railway, Render, GitHub Actions**Other:** ETL Pipelines, Data Warehousing, SearXNG**Healthcare Systems:** Epic Contact Hub, HIPAA-Compliant Workflow Design