

Ashton Woiwood

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Professional Experience:

Systems Engineer, Wells Fargo (Current)

- Built automated analytics systems to proactively monitor I/O, networking, and other metrics increasing our capability for early response.
- Designed and developed predictive models forecasting storage capacity and ingest throughput for building out new datacenters.
- Designed and executed Azure-based data pipelines integrating AI services to optimize and automate document ingestion.
- Collaborated with cross functional teams to enhance decision-making with self-service dashboards.
- Managed highly available systems using OpenShift and HELM with specialized load balancing to maximize availability.

Lead Business Analyst, ESO (July 2022 - February 2024)

- Ideated and executed the development of multiple data products that produced over 7 million ARR.
- Acted as a SME for internal and external partners with our EMS and Hospital data sources and tooling.
- Acted as a liaison between our engineering and leadership teams translating business needs into workable requirements.
- Communicated with hospital, government, and executive leadership bringing visibility championing initiatives.
- Developed AI solutions utilizing NLP to map free text to diagnosis and treatment categories saving hundreds of clinician hours.
- Built ELT pipelines using Azure Data Factory, Python, and SQL to load data into Snowflake for analytics and reporting.
- Architected highly available Snowflake data pipelines, ensuring reliability and automated failover for production workloads.
- Deployed interactive Tableau dashboards and led development workshops for upskilling team members.
- Applied statistical modeling and time-series forecasting to optimize healthcare operations; often presenting findings to senior government stakeholders.

Technical Consultant, UnityPoint Health (September 2020 - July 2022)

- Executed the creation of telehealth services for pharmacy, neurology, and palliative care.
- Worked with C-Suite leadership to champion telehealth and create and execute roadmaps aligned with business goals.
- Built A/B testing frameworks and regression models for healthcare initiatives, delivering statistically validated improvements.
- Developed and maintained Power BI and Tableau dashboards to optimize resource allocation across 6 hospitals & 14 clinics.
- Modeled the progression of infection curves across the healthcare system to optimize the allocation of resources, increasing operational capability by 20 percent by using dynamic allocations.
- Streamlined systems integration for telemedicine across facilities; led billing consolidation and translation services implementations.
- Translated stakeholder requirements into technical specs, ensuring iterative delivery of robust analytics solutions.

Education:

The University of Iowa, Iowa City, IA (May 2020)

B.S. in Data Science | AI/ML Cognate

Research Internship with Siemens Global

Research Publications / Conference Presentations

<https://ui.adsabs.harvard.edu/abs/2023arXiv230802581M/abstract>

<https://www.cambridgecybercrime.uk/conference2023.html>

<https://arxiv.org/abs/2409.07709>