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Enterprise AI Leader • Healthcare AI • Derisking & Scale

Maple Grove, MN

Executive Summary

Healthcare AI leader who pairs problem-solving with technical and domain expertise to turn LLMs, NLP, and ML into measurable gains. Built Generative AI Center of Excellence and Responsible Use of AI governance, leads de-risking teams, and scaled pilots and AI products to tens of thousands while steering a multibillion-dollar agenda. Customer-obsessed, he partners directly with payers, providers, and pharmacy leaders to turn frontline needs into products that set patterns for fast and safe GenAI at scale.

Selected AI Programs & Outcomes

- Enterprise GenAI rollout (UHG/Optum): Scaled secure pilots and persona-specific assistants to 10,000s of employees; standardized intake, evaluation, and approvals to de-risk deployments.
- AI portfolio leadership (>\$2B scope): Prioritized and funded high-value use cases across UHC, Optum Rx, and Optum Insight; instituted production monitoring and guardrails. Helped scale AI call summarization to 35,000 contact center advocates saving more than 20 seconds handling time per each call.
- Surest (acquired by UHC, 2021): Built DS org and ML IP; helped scale company from 40 → 400+ employees with 12×/7× YoY member growth; represented company at AI/healthcare conferences, podcasts, and webinars. From 0 to over 1M members and over **\$1B** value.
- Provider analytics (Allina): Built predictive modeling framework across >1M patients; partnered with performance improvement teams to reduce clinical variation and readmissions.

Experience

- **Optum** Minneapolis, MN
Chief Data Scientist, Optum Technology Jan. 2022 - Current
 - Report to UHG Chief AI Officer and serve as leader within Optum AI; external face for customers, providers, and brokers. Inform CXOs of UHG/Optum/UHC on emerging AI technologies.
 - Drive AI Agenda **over \$1B**, supporting AI adoption for UHC and Optum Rx Generative AI portfolios.
 - Lead the UHG Generative AI Center of Excellence; shepherd Responsible Use of AI governance from policy → reviews → approvals → monitoring.
 - Manage global span of 170+ across LLMs, deep learning, clinical innovations, and core AI/ML product.
 - Implemented and scaled Generative AI solutions to 10,000s of employees across multiple personas.
- **Surest, A UHG Company (Formerly Bind)** Minneapolis, MN
Chief Data Scientist, Data Science Lead Oct. 2017 - Jan. 2022
 - Led a national Data Science team from research to production across the business; key decision-maker for AWS, Databricks, and ML platforms.
 - Helped scale company from 40 to 400+ employees with 12× and 7× YoY member growth; developed ML IP and core analytics capabilities.
 - Built tools utilizing tens of billions of claim lines across hundreds of millions of members.
 - Represented company at AI and healthcare conferences, podcasts, and webinars; managed direct span of 14 and talent programs (internship, retention).

Experience: Continued

- **UnitedHealthcare** Minnetonka, MN
Director Healthcare Analytics Technology Nov. 2014 - Oct 2017
 - Lead an ARA global analytics technology team from research to production deployments. Key focus on technologies, solutions and tools across multiple business segments.
 - Experience as a key decision maker in large Hadoop, Machine Learning, and NLP platforms.
 - Team was tasked and successfully saved greater than **\$100M** more year over year.
 - Directed capability builds in Data Engineering, Infrastructure, Software Development, and Research.
 - Managed staff: direct span of 15 and **global** span of 190.
 - Administrator of production statistics servers. Deployed analytics in R, SQL, Python, .NET.
- **Allina Health** Minneapolis, MN
Manager of Clinical Analytics Feb. 2011 - Nov. 2014
 - Developed advanced predictive modeling framework using claims and clinical data for >1M patients.
 - Led clinical variation waste-reduction initiatives (e.g., spine procedure cost variation, readmission variation, patient experience variance).
 - Managed a staff of 13; re-engineered operating model to raise satisfaction, engagement, and innovation.
 - Administered production statistics servers; deployed analytics in R, SQL, Python, and .NET.
- **University of Minnesota** Minneapolis, MN
Graduate Research Assistant Aug. 2003 - Feb. 2011
 - Linux sysadmin for 32 core, 54 TB main Hadoop (HDFS) system; managed software for 20 users.
 - Reduced data feedback cycles from weeks to hours via new prompt-feedback tooling.
 - Primary responsibility for sub-nanosecond detector time alignment and performance on a complex, high-reliability system.
 - Experienced in the transfer and analytical and statistical analysis of **petabytes** of LHC data and simulations. Including use of worldwide LHC Grid Computing facilities.

Education

- **University of Minnesota** Minneapolis, MN
Ph. D., High Energy Particle Physics (2011)
 - Thesis: “Measurement of the differential $Z/\gamma^* \rightarrow e^+e^-$ cross-section shape as a function of the Z rapidity at the CMS experiment at the LHC”
- **University of Minnesota** Minneapolis, MN
B.S. Physics, B.S. Astrophysics (2003)

Technical Skills

Programming Languages: Python, SQL, C/C++, R

Platform Leadership: Cloud (AWS/Azure), Databricks/MLflow, Kubernetes/Docker, LLM providers (Azure OpenAI/Anthropic/Vertex), LLMops (evals/monitoring/guardrails), privacy (PHI/PII), AI risk (NIST AI)

Selected Publications

1. **Predictive Analytics: Pinpointing How To Best Allocate Patient Resources.**
HFMA, Leadership Magazine, P 20, Spring 2013.
2. **Observation of a new particle (Higgs Boson).** Aad, G. et al. (ATLAS and Collaborations) Phys. Rev. Lett. 114, 191803 (2015). DOI: 10.1103/PhysRevLett.114.191803
3. List of over 230 Publications and Patents