**Nana Wang**

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**PROFESSIONAL SUMMARY**

With over ten years of experience in Data Science and Data Engineering, I have a proven track record of collaborating with product and technological teams to develop AI-driven solutions in diverse domains, including media, healthcare, and education. My career has been marked by strategic moves and internal promotions, demonstrating my growth-oriented mindset and leadership skills. I hold an MS in AI and an MS&BS in finance (GPA 4.0), showcasing my commitment to continuous learning and excellence. I excel at leading cross-department collaborations, leveraging influence and networking to drive innovation. My resilience and adaptability have been key in overcoming challenges, such as recovering from a disc bulge through consistent health practices. I am passionate about bridging journalistic principles with AI solutions, advocating for responsible AI usage, and enhancing editorial workflows and consumer-facing products.

**EXPERIENCE**

**DIRECTV** LOS ANGELES, CA

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| **Principal Data Scientist** *Dec 2021 - Present* |

Led AI-driven initiatives to enhance customer experience and operational efficiency in media technology.

* Transformed call-center KPIs, saving $2M+ annually, impacting 8000+ agents across multiple centers by ?? %.
* Secured buy-ins from senior leaders, fostering collaboration across analytics and IT departments by ?? %.
* Redefined KPIs, reducing call repeats and disconnects, enhancing agent performance metrics by ?? %.
* Improved product reliability by ?? +2% through redefined engineering diagnostics KPIs.

• Led cross-departmental focus shift to ?? customer-centric strategies, enhancing collaboration.

• Built 23 new metrics for churn models, increasing prediction accuracy by ?? 2% in marketing.

* Delivered detractor models for churn prediction, boosting department impact significantly by ?? %.

**Landmark Health LLC** Huntington Beach, CA

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| **Sr. Consultant, Data Science** *Jul 2019 - Sep 2021* |

Enhanced healthcare analytics and predictive modeling to improve patient outcomes and reduce costs.

• Reduced hospital admissions by ?? 14%, saving $6M, impacting 3000+ high-risk patients.

• Boosted model accuracy by ?? 30% through rebuilding inpatient re-admission prediction models.

• Defined risk drivers, reducing inpatient visits by ?? 14% and ER visits by 20% across regions.

• Increased dashboard performance, saving 50% time and $50K in operational costs by ?? %.

• Developed PCP attribution algorithms, optimizing resource planning for 500+ providers by ?? %.

• Optimized ETL pipelines, saving 50% time in healthcare economics metrics dashboards by ?? %.

**Capital Blue Cross** Harrisburg, PA

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| **Sr. Business Consultant** *Apr 2017 - Jul 2019* |

Managed complex healthcare analytics for regulatory compliance and improved patient care metrics.

* Managed end-to-end healthcare analytics for regulatory compliance across ?? health plans.

• Led CMS regulatory reporting deliveries with 100+ patient care metrics, ensuring accuracy by ?? %.

• Coordinated relations with 2 auditor agencies and 7 health plans for seamless operations by ?? %.

**Pennsylvania Department of Education** Harrisburg, PA

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| **Data Analyst & Data Architect** *Oct 2014 - Feb 2017* |

Developed analytics solutions to enhance educational outcomes and streamline data processes.

* Led analytics for state-wide educator onboarding, improving student performance monitoring by ?? %.

• Transitioned from vendor solutions to in-house support, enhancing efficiency by ?? %.

* Created 10 new metrics, boosting educators' capabilities for monitoring student outcomes by ?? %.

• Designed ETL pipelines, saving $50K annually and reducing processing time by ?? 50%.

**EDUCATION**

**Johns Hopkins University** US

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| **MS in Artificial Intelligence** *2018-2023* |

• Transitioned from a business background to AI, enhancing cross-functional collaboration skills while working full-time

* Completed 7 prerequisites in advanced math and programming, focusing on data analysis and machine learning applications

• Completed 11 graduate courses, including AI technologies and consumer product development, with a focus on media applications

**University of Maryland** US

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| **MS in Finance** *2012-2014* |

• Developed strong analytical and decision-making skills applicable to AI-driven solutions

• Gained experience in data analysis and strategic financial planning

**University of Nottingham** China

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| **BS in Finance** *2008-2012* |

• Graduated with First Honors Degree, GPA 4.0, awarded Dean’s Scholarship (top 5%)

• Demonstrated leadership and organizational skills through academic projects

**SKILLS**

TECHNICAL

AI technologies, Data analysis, Machine learning applications, Consumer product development, Python, R, SQL, Cloud platform Azure/AWS, Scikit-learn, TensorFlow, PyTorch, NLP

SOFT

Leadership, Strategic mindset, Cross-functional collaboration, Communication of complex concepts, Advocacy for AI ethics

OTHER

Editorial operations, Collaboration with product and technological teams, Experiment design, Data Engineering

**PROJECTS**