PROFESSIONAL SUMMARY

Seasoned data science leader with over eight years of experience in cloud development and AI, specializing in healthcare and life sciences. Proven track record in developing and implementing advanced data science solutions that drive business impact. Expert in modern data science approaches, including GenAI, neural networks, and deep learning, with experience in supervised and unsupervised algorithms. Proficient in Python, R, and SQL, with a strong foundation in high-performance computing and database systems. Skilled in leading and mentoring cross-functional teams, fostering innovation, and communicating complex ideas effectively. Holds a Master's degree in Computer Science, with a history of publication in scientific forums.

WORK EXPERIENCE

Global Cloud Inc. Seattle, WA

Senior Software Development Engineer - Elastic Infra Platform 2021.06–Present

- Leveraged state-of-the-art AI methodologies, including GenAI and deep learning, to enhance next-gen SDP systems, significantly reducing downtime and improving reliability for multinational clients such as RedRock and ClosedAI.
- Architected and implemented advanced data warehouse solutions, integrating complex data sets to bolster strategic decision-making across global operations.
- Innovatively improved small LLMs' reasoning through reinforcement learning, advancing the development of AI-driven infrastructure rollout agents.
- Spearheaded initiatives to enhance system-wide visibility, optimizing update coverage to achieve a 99.99% success rate for hybrid cloud environments.

Software Development Engineer II - Core Infra Platform 2019.05–2021.05

- Developed a robust cluster orchestration system, utilizing supervised learning algorithms to coordinate rollouts across 8M nodes, directly contributing to a $2M cost saving for key partners like Walnut and RedRock.
- Enhanced legacy systems using machine learning techniques, achieving a 30% reduction in rollout times and elevating customer satisfaction.
- Introduced innovative alert merging technologies, leveraging AI to decrease Mean Time to Detect issues from 24h to 30m, ensuring a 99.9% SLA uptime.
- Identified and implemented 49 new performance metrics for rollout failure analysis, driving significant operational efficiencies.

TechCorp LLC San Francisco, CA

Software Engineer 2016.11–2019.03

- Led the migration of ML infrastructure to AWS, achieving 99.9% uptime and optimizing employee benefits renewal strategies through data-driven insights.
- Designed and deployed a distributed message queue, enhancing enterprise integration and communication efficiency.
- Implemented a Bloom-Filter caching service for rapid breach detection, reducing cloud costs by over $200k, demonstrating expertise in advanced data science applications.

HealthData Systems Chicago, IL

Software Engineer 2015.09–2016.11

- Engineered a high-durability data placement service for cloud storage, ensuring 99.9999% data reliability, critical to the success of the CareChart platform.
- Developed an efficient garbage collection system to manage and optimize storage resources, supporting critical healthcare operations.
- Contributed to data modeling and infrastructure projects, applying advanced statistical methods to improve healthcare data management and analysis.

EDUCATION

Notecnirp University

M.S. in Computer Science, specializing in AI and Machine Learning

Graduated: June 2015

- Thesis: "Optimizing Neural Networks for High-Performance Computing Environments"
- Relevant Coursework: Advanced Statistical Modeling, Knowledge Graphs, GenAI Technologies

Jiangning University

B.S. in Computer Science, with a focus on Data Science Applications

Graduated: June 2012

- Capstone Project: "Implementing Unsupervised Learning Algorithms in Healthcare Data"
- Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Biomedical Data Analysis

SKILLS

- Programming Languages: Python, R, Julia, SQL, NoSQL
- Expertise: GenAI (LLMs, LMMs, agents, evaluation), Unsupervised and supervised classification and regression algorithms, Neural networks, Deep learning, Knowledge graphs
- Systems: High performance computing, Cloud environments, Graph databases
- Skills: Advanced statistical modeling, Algorithm design and optimization, Data science product development, Large scale distributed systems, LLM orchestration
- Leadership: Team mentoring, Cross-functional collaboration, Strategic decision-making, Influence and communication in complex global organizations

ADDITIONAL INFORMATION

- Publication:

- Ved, A., Shazam, N., Pavithra, N., Uzi, J., Doe, J., Gomez, A. N., Karen Ł., & Poco I. (2017). "Distraction is all you need." Advances in Neural Information Processing Systems, 5998-6008. This publication highlights innovative approaches in neural network architectures, focusing on genAI and deep learning, contributing to state-of-the-art advancements in AI and machine learning, relevant to the pharmaceutical and healthcare sectors.