Timothy Riffe
AI/ML Engineer | Deep Learning | NLP | Cloud Computing
Email: timothy.riffe@unified-software-ai.com | **Phone:** (661) 809-6450 | **LinkedIn:** linkedin.com/in/timothyriffe

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Professional Summary

AI/ML Engineer with **14+ years** of experience in **machine learning, deep learning, cloud computing, and AI-driven applications**. Extensive expertise in **LLMs, NLP, computer vision, reinforcement learning, and AI/ML pipelines**. Adept at deploying and optimizing models in **Azure, AWS, GCP, and IBM Cloud** environments. Strong background in **MLOps, model deployment, and AI infrastructure scaling**. Passionate about **advancing AI applications** in enterprise, financial, and defense sectors.

Technical Skills

- **AI & Machine Learning:** GPT-4o, LLaMA, RAG, BERT, Transformers, Deep Learning, GANs, RL, AutoML
- **Cloud & DevOps:** Azure AI, AWS SageMaker, GCP Vertex AI, Kubernetes, Docker, Terraform
- **Programming:** Python, FastAPI, PyTorch, TensorFlow, SQL, JavaScript, C++
- **Big Data & Data Engineering:** Spark, Databricks, Snowflake, SQL, NoSQL, ETL Pipelines
- **MLOps & Model Deployment:** CI/CD, GitHub Actions, MLflow, Kubeflow, Vertex AI Pipelines

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Professional Experience

Unified Software Solutions – Bakersfield, CA

CEO & AI/ML Engineer (2021 - Present)

- Designed **LLM-powered AI applications** for **finance, healthcare, and defense** using **GPT-4o, RAG, and custom embeddings**.
- Developed **Azure AI-driven data pipelines** for **predictive analytics and enterprise AI automation**.
- Led a team to **scale AI-driven business intelligence solutions** using **Databricks & Snowflake**.
- Built **AI-enhanced NLP models** for **document processing and automated financial reporting**.

WorldQuant – Remote

Quantitative Research Consultant (2023 - Present)

- Developed **high-frequency trading AI models** with **statistical learning and reinforcement learning**.
- Built **risk-adjusted investment prediction models** utilizing **transformers and deep learning architectures**.
- Integrated **MLOps workflows on GCP & Azure** to streamline model training and deployment.

Morgan Stanley | Merrill Lynch | JP Morgan – Various Locations

Financial Advisor & AI Strategist (2013 - 2017)

- Applied **AI-driven portfolio optimization** techniques for **asset allocation & risk mitigation**.
- Led **data-driven trading strategy development** using **QuantConnect & QuantLib**.

Education

- **B.S. in Business Administration & Management – University of Phoenix (2017)**

Certifications & Licenses

- **AWS Cloud Practitioner & AWS AI Practitioner**
- **FINRA Series 63 & 65 | SIE | Expired Series 7 & 66**

Key AI/ML Projects

✅ **LLM-Powered AI Assistant**: Built a **RAG-enabled chatbot** for **enterprise knowledge management & financial insights**.
✅ **AI-Based Investment Strategy Engine**: Designed **deep learning models** for **automated trading & portfolio optimization**.
✅ **MLOps Pipeline Optimization**: Implemented **CI/CD-driven ML pipelines** for **scalable AI applications**.
✅ **Cloud-Native AI Deployments**: Deployed **GPT-powered AI apps** on **Azure Kubernetes Service (AKS)** for enterprise clients.