ALEX MORGAN

AI Engineer

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Location: San Francisco, CA

Portfolio: github.com/alexmorgan | alexmorgan.dev

PROFESSIONAL SUMMARY

Logical and detail-oriented AI Engineer with 5 years of experience designing and implementing production-grade machine learning systems. Specialized in natural language processing, reinforcement learning, and computer vision with a proven track record of reducing inference times by 40% and improving model accuracy by 25%. Experienced in full ML lifecycle from research and prototyping to deployment and monitoring.

SKILLS

Programming Languages: Python, C++, JavaScript, SQL

ML Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers

Cloud & MLOps: AWS (SageMaker, Lambda), Docker, Kubernetes, MLflow, Kubeflow, Airflow

Data Processing: Pandas, NumPy, Dask, Apache Spark, PostgreSQL

NLP & Computer Vision: BERT, GPT, YOLO, ResNet, Transformers, OpenCV

Software Engineering: Git, CI/CD, Agile/Scrum, Test-Driven Development

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WORK EXPERIENCE

Senior AI Engineer | TechVision AI | San Francisco, CA | Jan 2023 - Present

- Lead a team of 4 engineers in developing and optimizing real-time recommendation algorithms, resulting in a 22% increase in user engagement
- Architected and deployed a distributed training pipeline for large language models (LLMs) that reduced training time by 35%
- Improved model inference latency by 40% through quantization and distillation techniques

- Designed a robust monitoring system that detects model drift and triggers retraining, reducing manual intervention by 80%
- Implemented A/B testing framework for ML models, enabling data-driven decision making for model selection

AI Engineer | DataSmart Solutions | San Francisco, CA | Mar 2020 - Dec 2022

- Developed a sentiment analysis system processing 10M+ customer reviews daily with 92% accuracy
- Created computer vision models for manufacturing defect detection, reducing error rates by 30%
- Implemented reinforcement learning algorithms for dynamic pricing, increasing revenue by 15%
- Built and maintained data pipelines processing 500GB+ of data daily using Apache Spark
- Collaborated with product teams to identify AI use cases and translate business requirements into technical specifications

Machine Learning Engineer | InnovateTech | Mountain View, CA | Jun 2019 - Feb 2020

- Designed and implemented NLP models for customer support automation, handling 60% of incoming queries
- Optimized data preprocessing pipelines, reducing ETL processing time by 45%
- Developed proof-of-concept models for new product features using rapid prototyping

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EDUCATION

Master of Science in Computer Science | Stanford University | 2019

- Specialization: Artificial Intelligence
- Thesis: "Efficient Transformer Architectures for Resource-Constrained Environments"
- GPA: 3.9/4.0

Bachelor of Science in Mathematics | University of California, Berkeley | 2017

- Minor: Computer Science
- GPA: 3.8/4.0

PROJECTS

Autonomous Drone Navigation System

- Implemented deep reinforcement learning algorithms for autonomous navigation in complex environments
- Achieved 95% successful navigation rate in simulated urban environments

Medical Image Segmentation

- Developed a U-Net based architecture for automatic segmentation of medical images
- Improved accuracy by 18% over previous state-of-the-art methods

Multilingual Question-Answering System

- Created a transformer-based QA system supporting 8 languages
- Deployed as a scalable microservice handling 1000+ queries per minute

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CERTIFICATIONS

- AWS Certified Machine Learning - Specialty (2023)
- Google Professional Machine Learning Engineer (2022)
- Deep Learning Specialization - Coursera (2021)

PUBLICATIONS

- Morgan, A., et al. (2023). "Efficient Fine-tuning Strategies for Large Language Models." *Conference on Neural Information Processing Systems (NeurIPS)*
- Morgan, A., Zhang, L. (2022). "Optimizing Transformer Models for Edge Devices." *International Conference on Machine Learning (ICML)*

LANGUAGES

English (Native), Mandarin Chinese (Intermediate), Spanish (Basic)