Aanu Oshakuade

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Target

AI Systems Engineer — GPU/Accelerated Computing Engineer — AI Software Engineer

Computer engineer specializing in accelerated computing, parallel simulation, and production AI systems. Builds GPU-optimized ML workflows (PyTorch/Triton/CUDA), runs cloud GPU training and inference jobs, and develops proprietary computational pipelines—including large-scale computational biology simulation and RF signal processing. Combines performance engineering with secure, reliable infrastructure operations and disciplined evaluation.

Technical Skills

Languages	Python, C/C++
ML/AI	Computer vision, vision transformers, reinforcement learning, XGBoost, SHAP; fine-tuning and evaluation workflows
GPU/Perf	CUDA, Triton, vLLM; parallel/distributed training concepts (DDP/NCCL); throughput/latency optimization
Infra/MLOps	Linux, Docker, ETL, SQL; AWS, Azure; cloud GPU operations (RunPod/Colab)
Security/IT	Microsoft Entra ID, Intune, network segmentation, PowerShell

Experience

RetinaWiseAI™ / RCEE Networks *AI Engineer (Computer Vision) — Contract* *Remote*
2025 – Present

- Fine-tuned and evaluated Fundus and OCT computer vision pipelines for retinal image analysis and early-disease triage on proprietary datasets.
- Built image preprocessing, labeling, and model-evaluation workflows; increased internal screening performance to ∼**95%** validation accuracy (confirm metric and dataset size).
- Supported cloud-based inference workflows and secure clinical-image handling for scalable diagnostics operations.
- Supported technical preparation for trade-show and conference demonstrations of retinal AI capabilities and workflow outcomes.
- Owned MLOps hygiene for the team (documentation, reproducible training/inference workflows, and Git-based collaboration).
- Implemented vLLM-accelerated inference scripts to improve throughput/latency for demos and internal evaluation.

Tarrant To & Through Partnership *Systems Engineer / Infrastructure and AI Integrator* *Fort Worth, TX*
2024 – Present

- Designed and operated Microsoft 365 and Azure Entra ID environments for **60+** users with Conditional Access, MFA, BitLocker, Defender, and telemetry baselines aligned to FERPA/CJIS controls.
- Led Microsoft 365 tenant migration for **80+** users/devices (DNS cutover, staged mailbox moves, Intune re-enrollment) with Graph/PowerShell automation.
- Engineered a **32 TB** RAID 6 NAS with RBAC, encrypted shares, rsync backups, and snapshot DR; improved access speed by **90%** and reduced recovery time by **40%**.
- Built AWS SFTP and Python ETL pipelines for Salesforce-integrated analytics with encryption, checksum validation, and audit logging.
- Rebuilt internal IT operations model; reduced vendor dependence and saved ∼**$120K/yr** while maintaining **99.9%** uptime for critical services.

Confidential Baseball Analytics Startup (Stealth) *ML & Computer Vision Engineer / Resident Expert* *Remote*
2025 – Present

- Led end-to-end ML/CV development (fine-tuning workflows, training orchestration, experiment tracking) for iterative product validation.
- Integrated CV/ML outputs into real-time 3D simulation and visualization workflows for interactive analysis.
- Built model-serving pathways for low-latency demos and iterative product validation.
- Authored experiment and model-operation documentation to support reproducibility, handoff, and production readiness.

Salem Innovation Solutions, LLC *Founding Engineer / Principal Investigator (Concurrent R&D)* *Bixby, OK*
2025 – Present

- Designed reinforcement learning workflows for autonomous drone navigation, mission planning, and multi-agent coordination.
- Built predictive optimization models with multimodal data (satellite imagery, weather, IoT) for applied aerospace and energy use cases.
- Built GPU-accelerated parallel simulation and experimentation workflows; managed cloud GPU runs and performance tuning for training/inference workloads.
- Contributed to SBIR proposal development focused on explainable AI, secure cloud integration, and dual-use applications.

Selected Projects

- **Aerial Anomaly Detection (DOTA/xView):** transformer-based vision workflows targeting sub-50 ms inference latency.
- **Asteroid Hazard Classification (NASA SBD):** classifier on 4,687 objects with strong recall and ROC-AUC; applied SHAP for interpretability.
- **Computational Biology Parallel Simulation (Proprietary):** large-scale parallel simulation pipelines optimized for GPU/CPU throughput and reproducible runs.
- **RF Signal Detection & DSP:** spread-spectrum/demodulation and anomaly detection workflows; focused on performance and numerical stability.

Education

B.S., Computer Engineering — Oral Roberts University *2024*

Certifications

- Machine Learning Specialization — Stanford Online & DeepLearning.AI (2025)
- Supervised Machine Learning and Advanced Learning Algorithms — Stanford Online (2025)
- Microsoft Azure Fundamentals (AZ-900) (2024)
- Certified ScrumMaster (CSM) (2024)
- CompTIA Security+ (SY0-701) — In Progress