

O. FELIX AMORUWA

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Applied AI engineer and NeurIPS-published researcher with 12+ years building production AI systems — from hand-coded BPTT in C++ to fine-tuning and benchmarking GRPO/DPO across TRL, VeRL, OpenRLHF, and NeMo RL today. Built advanced RAG pipelines (ChromaDB), multi-agent orchestration frameworks, and a local-first LLM evaluation platform covering factuality, safety, and instruction-following with statistical rigor. Proven forward-deployed communicator: translated complex AI architecture to CTO-level stakeholders at Intuit (675M+ engagements) and enterprise customers at Splunk. MS Software Management, Carnegie Mellon; BS Computational Engineering, UC Berkeley.

AI/ML RESEARCH & PROJECTS

RL Workbench — LLM Post-Training & Fine-Tuning Platform (2026)

- Built 3-phase RLHF/DPO post-training workbench: Reward Lab for designing and A/B testing reward functions (RLVR, learned, hybrid) across GSM8K, MATH, HumanEval, and UltraFeedback; Playground for real TRL-powered GRPO/DPO training with live SSE metric streaming on Apple Silicon (MPS) or CUDA; Arena for head-to-head framework benchmarking (TRL, VeRL, OpenRLHF, NeMo RL) with GPU passthrough in Docker containers.
- Implemented 12 RL fine-tuning algorithms (PPO, GRPO, DAPO, REINFORCE++, RLOO, DPO, SimPO, IPO, KTO, ORPO, SPPO) with algorithm-specific metric profiles, cross-tab workflow lineage tracking, and standardized throughput/memory/convergence benchmarking across frameworks.

aeval — Production LLM Evaluation Platform (2025–2026)

- Built local-first LLM evaluation platform covering 5 eval types (factuality, reasoning, instruction-following, safety, code generation), adversarial safety testing with refusal detection, and data contamination detection via SHA-256 hashing — directly supporting prompting, evaluation, and fine-tuning guidance workflows.
- Statistical rigor: bootstrap confidence intervals, Welch's t-test, Cohen's d effect size, saturation detection; CI/CD integration with regression detection and automated safety gates. Stack: FastAPI orchestrator, TimescaleDB, Redis job queue, Next.js dashboard, Ollama.

BRAIN — Protein Structure Prediction ML Platform (UC Berkeley 2004; rewritten 2026)

- Built production ML platform in PyTorch with 5 neural architectures (feedforward, GRU, Transformer, ESM-2, multi-task), MLflow experiment tracking, Optuna HPO, and FastAPI serving — 823 automated tests, Docker orchestration (6 containers); scales from 413 to 8B parameters.
- NeurIPS 2014 accepted paper on artificial neural networks for protein secondary structure prediction; original 2004 system hand-coded in C++ with custom BPTT — demonstrating deep understanding of ML fundamentals from first principles.

AutoEval — Automated Visual Evaluation for Robot Model Training (2025)

- Built multimodal AI evaluation system using Claude/GPT-4V for spatial reasoning on prediction frames (grasp poses, segmentation maps, bounding boxes) against natural-language rubrics — reducing evaluation cycles from 72 hours to ~4 minutes with zero-integration screen-capture architecture.

PROFESSIONAL EXPERIENCE

FINTELLECT AI | Oakland, CA

Founder & CEO — *fintellectai.io* (iOS/Android/Web) 09/24 – Present

- Architected advanced RAG retrieval pipeline with ChromaDB vector store, multi-provider LLM orchestration (Claude, GPT-4, Gemini) with fallback routing, structured output validation, and token budget optimization — production-deployed on App Store.
- Built domain-specific Fintellect Agents: conversational AI agents scoped to distinct financial focal points, delivering guided, context-aware agentic interactions across mobile and web.
- Built AI-powered charting and macroeconomic analysis tools integrating LLM models for automated trade analysis at scale; led customer discovery and go-to-market execution.

STREAMIO AI | Oakland, CA

Founder & CEO — *streamio.ai* (macOS, Linux, iOS & Web) 09/24 – Present

- Implemented OpenClaw multi-agent orchestration framework with gateway protocol, subagent delegation, profile management, and session switching — enabling coordinated agentic workflows across real estate, insurance, health/dental, and financial markets.
- Built production Electron + React + TypeScript desktop application with 100+ components integrating Claude (MCP SDK) for real-time contextual AI analysis, Pine Script generation, and automated CMA reports via Redfin/Zillow APIs.
- Shipped cross-platform production builds with native macOS ScreenCaptureKit (Swift), embedded terminal (20+ slash commands), and MCP server exposing screen capture tools to AI coding assistants; end-to-end auth via Kinde OAuth 2.0 and Stripe.

INTUIT | Mountain View, CA

Staff Product Manager — *Developer Frameworks & Platform Infrastructure* 06/21 – 09/24

- Achieved 275% YoY growth in platform engagements, scaling to 675M+ in FY23 across QuickBooks, TurboTax, Mint, Mailchimp, and Credit Karma; scaled throughput from 6K to 50K TPS via rSocket migration supporting ~1.5M concurrent connections with sub-25ms TP99.
- Delivered ICE Self-Service platform (DevPortal, GitOps config, ICE Playground), reducing developer onboarding from 2–3 weeks to minutes in pre-prod and <24 hours for production, while mitigating \$1M+ in projected opex growth.
- Conducted enterprise-wide Service Language Assessment across 9 languages, analyzing usage data and developer feedback to inform strategic investment decisions presented to CTO — translating complex technical findings for executive and non-technical audiences.
- Worked closely with telemetry and usage data (SQL, BigQuery) to prioritize developer pain points across ~20 mobile apps and 30+ product SKUs; implemented ICE Presence in async chat, generating \$480K/month in additional invoicing.

SPLUNK INC. | San Francisco, CA

Senior Product Manager — *Search Orchestration* 01/19 – 01/21

- Owned Search Service (Go microservices), Search Catalog (PostgreSQL metadata service), and Splunk Processing Language (SPL/SPL2) — built roadmaps and PRDs for Splunk Cloud Services; demoed Scheduler Service at .conf19.
- Led query performance optimization for beta enterprise customer, achieving up to 10x performance improvements; designed RICE-based prioritization framework balancing Fortune 500 customer, internal partner, and third-party developer requirements.

KAISER PERMANENTE | Pleasanton, CA

SOA Technical Product Manager 08/12 – 12/18

- Led development and enterprise rollout of Splunk Logging-as-a-Service (1.7 TB daily volume, 200+ internal enterprise customers); built Redis/XC10 caching capability addressing scalability, fault tolerance, and data redundancy at enterprise scale.

IBM | Pittsburgh, PA / Foster City, CA / RTP, NC

Software Engineer — Business Intelligence Products 07/05 – 03/10

- Resolved multiple \$1–5M high-severity customer escalations for enterprise BI software; led cross-functional root cause analysis and customer-facing resolution, improving case resolution time by 20% across the Support Organization.

EDUCATION

CARNEGIE MELLON UNIVERSITY, SILICON VALLEY

Master of Science — Software Management Mountain View, CA (08/16)

CARNEGIE MELLON, TEPPER SCHOOL OF BUSINESS

Master of Business Administration — Concentrations: Finance, Quantitative Analysis, Economics Pittsburgh, PA (03/12)

UC BERKELEY, COLLEGE OF ENGINEERING & HAAS SCHOOL OF BUSINESS

Bachelor of Science — Computational Engineering Science Berkeley, CA (12/05)

Certificate — Corporate Finance for Financial Engineering

TEACHING EXPERIENCE

DE ANZA COLLEGE | Cupertino, CA

Adjunct Faculty — Computer Information Systems Department 04/18 – Present

- CIS 35A/B, 36A/B — Java Programming; CIS 44F — Introduction to Data Analytics; CIS 64E — Fundamentals of Large Scale Cloud Computing (AWS, GCP); CIS 102 — Ethical Hacking; CIS 104 — Digital Forensics; CIS 95F — Managing Cloud Projects.

ADDITIONAL INFORMATION

- Lawrence Berkeley National Laboratory: Computational analysis of RNA/DNA sequences under Dr. Steven Holbrook; assessed secondary structure accuracy using Monte Carlo and AI algorithms.
- O'Reilly & OER Publications: Data Analytics and Managing Cloud Projects (forthcoming Summer 2026)
- FAA Commercial Drone License; FAA Private Pilot License (intended CFI)
- Interests: Classical & Jazz Saxophone (Alto/Tenor/Baritone), Triathlon, Golf, First Tee Assistant Golf Coach — SF Chapter (2012–Present)