

# O. FELIX AMORUWA

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Research-oriented Technical Product Manager with 12+ years driving complex AI/ML programs from frontier research to production — NeurIPS published researcher (protein structure prediction, 2014) with hands-on post-training and evals platforms benchmarking GRPO/DPO across TRL, VeRL, OpenRLHF, and NeMo RL. Proven ability to translate deeply technical ideas into actionable plans and keep cross-functional teams aligned at scale (675M+ engagements, Intuit). Thrives in fast-moving, ambiguous environments bridging frontier AI research and real-world applications. MS Software Management, Carnegie Mellon; MBA, Tepper; BS Computational Engineering, UC Berkeley.

## AI/ML RESEARCH & PROJECTS

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### RL Workbench — Post-Training RL Platform (2026)

- Built 3-phase post-training workbench covering the full RLHF/DPO pipeline: Reward Lab for designing and A/B testing reward functions (RLVR, learned, hybrid) across 4 datasets (GSM8K, MATH, HumanEval, UltraFeedback), Playground for real TRL-powered GRPO/DPO training with live SSE metric streaming on Apple Silicon (MPS) or CUDA, and Arena for head-to-head framework benchmarking (TRL, VeRL, OpenRLHF, NeMo RL) with GPU passthrough in Docker containers.
- Implemented 12 RL algorithms (PPO, GRPO, DAPO, REINFORCE, 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 — directly informing post-training strategy trade-offs.

### aeval — AI Model Evaluation Platform (2025–2026)

- Built local-first evals platform with 5 core eval types (factuality, reasoning, instruction-following, safety, code generation), adversarial safety testing with refusal detection, and data contamination detection via SHA-256 hashing — aligned with frontier AI research evaluation standards.
- 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.

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

- Built automated visual evaluation system bridging frontier multimodal AI (Claude/GPT-4V) and robotics pipelines — scoring model outputs (grasp poses, segmentation maps, bounding boxes) against natural-language rubrics, reducing evaluation cycles from 72 hours to ~4 minutes.
- Zero-integration architecture captures from any visualization tool (RViz, Matplotlib, custom dashboards) via screen capture; generates structured PASS/FAIL reports with confidence scores and edge-case flagging.

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

- NeurIPS 2014 published research on artificial neural networks for protein secondary structure prediction; 2026 rewrite spans 413 to 8B parameters (19M-fold scale increase) with 5 architectures (feedforward, GRU, Transformer, ESM-2, multi-task), MLflow, Optuna HPO, and FastAPI serving.
- Original 2004 system: hand-coded neural network in C++ with custom BPTT — foundational ML research experience predating modern frameworks.

### Lawrence Berkeley National Laboratory

- Computational analysis of RNA/DNA sequences under Dr. Steven Holbrook; assessed secondary structure accuracy using Monte Carlo and AI algorithms.

## PROFESSIONAL EXPERIENCE

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### INTUIT | Mountain View, CA

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

- Drove cross-functional programs across ~20 mobile apps and 30+ product SKUs — achieving 275% YoY growth in ICE 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), translating complex infrastructure requirements into actionable milestones — 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 (Java, Python, Kotlin, Go, TypeScript, Scala, PHP, C++, Groovy), synthesizing usage data and developer feedback to inform strategic investment decisions presented to CTO — exemplifying ability to abstract at high level and get into the weeds.
- Worked closely with telemetry and usage data (SQL, BigQuery) to prioritize developer pain points; built Asterias, a declarative asset lifecycle management platform with GraphQL API; led Mailchimp GCP-to-AWS migration for MSaaS.
- Initiated MSaaS Drift Detection and Resolution program: wrote Java JAR library to scan Git repos for configuration drift, partnered with Design on DevPortal UI, and built remediation roadmap using OpenRewrite.

### STREAMIO AI | Oakland, CA

#### Founder & CEO — AI Research Platform (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 AI agent workflows bridging frontier research and real-world applications across multiple industry verticals.
- Built production Electron + React + TypeScript desktop application with 100+ components, Redux Toolkit state management, and native macOS/Linux support — providing real-time AI analysis of screen captures using Claude (MCP SDK), enabling contextual conversations and automated domain-specific report generation.
- Shipped cross-platform builds (macOS DMG with code signing/notarization, Linux .deb) with native macOS ScreenCaptureKit integration via Swift, embedded terminal (xterm.js/node-pty), and MCP server exposing screen capture tools to AI coding assistants.

- Led 0-to-1 product strategy, AI development, and go-to-market execution in a fast-moving, ambiguous environment including customer discovery and iterative product refinement.

#### **FINTELLECT AI** | Oakland, CA

*Founder & CEO — Applied AI Financial Platform (iOS/Android/Web) 09/24 – Present*

- Architected 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 — bridging frontier model capabilities and production application requirements.
- Built domain-specific conversational AI agents scoped to distinct financial focal points, delivering context-aware advisory interactions; integrated LLM models for automated trade analysis at scale.

#### **SPLUNK INC.** | San Francisco, CA

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

- Delivered Scheduler Service end-to-end in ~4 months (June–Oct 2019), translating technical ideas into actionable milestones and enabling scheduled search capabilities for first-party applications; demoed at Splunk .conf19.
- Led query performance optimization initiative, building mirrored Enterprise topology for benchmark testing and achieving up to 10x performance improvements — identifying bottlenecks and trade-offs in a complex distributed system.
- Designed repeatable RICE-based prioritization framework for 3 microservice backlogs (Search Service in Go, Search Catalog in PostgreSQL, SPL/SPL2), balancing internal partner, third-party developer, and Fortune 500 customer 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) and ITSI Application Monitoring-as-a-Service.
- Created and maintained capacity and resource roadmaps for SOA product suite, analyzing demand drivers and developing IT capacity plans across multiple datacenters — identifying bottlenecks and opportunities to accelerate progress.

#### **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.

#### **BANK OF AMERICA MERRILL LYNCH** | Charlotte, NC

*Tech MBA Summer Associate — Global Corporate & Investment Banking T&O 06/11 – 08/11*

- Developed enhanced estimation model using Monte Carlo simulation to optimize DMAIC phase distribution across a \$494M portfolio in Global Technology & Operations.

### **EDUCATION**

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#### **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**

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#### **DE ANZA COLLEGE** | Cupertino, CA

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

- CIS 35A/B, 36A/B — Java Programming; CIS 64C/G — Introduction to PL/SQL; 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**

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- FAA Commercial Drone License; FAA Private Pilot License (intended CFI)
- O'Reilly & OER Publications: Data Analytics and Managing Cloud Projects (forthcoming Summer 2026)
- First Tee Assistant Golf Coach — San Francisco Chapter (2012–Present), Pittsburgh Chapter (2011–2012)
- Interests: Classical & Jazz Saxophone (Alto/Tenor/Baritone), Triathlon, Golf, Intramural Basketball & Soccer