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Portfolio: <https://hamanporfolio.vercel.app/>

PROFESSIONAL SUMMARY

Senior Software Engineer and AI Training Specialist with a **Ph.D. in Software Engineering** and over 8 years of experience building scalable systems. Expert in **Reinforcement Learning from Human Feedback (RLHF)** and **Supervised Fine-Tuning (SFT)** for Large Language Models (LLMs). Combines deep technical proficiency in **Python, Elixir, and TypeScript** with the linguistic precision required for high-quality data annotation. **Native Swahili speaker** with extensive experience in technical localization and cross-cultural AI model evaluation.

TECHNICAL SKILLS

- **AI & Data Training:** RLHF, Supervised Fine-Tuning (SFT), LLM Evaluation, Code Hallucination Detection, Prompt Engineering, Ground Truth Creation.
- **Languages & Frameworks:** Python (Django, Flask, SQLAlchemy), JavaScript/TypeScript (React.js, Node.js, Redux, Express), Elixir (Phoenix), SQL, HTML5/CSS3.
- **Engineering Standards:** Agile/Scrum Methodologies, Test-Driven Development (TDD), Pair Programming, Code Reviews, Git Flow Workflow, MVC Architecture, REST API Design.
- **DevOps & Infrastructure:** AWS (EC2, S3), Docker, Kubernetes, CI/CD Pipelines (GitHub Actions), PostgreSQL, Redis, Linux/Bash.

CORE COMPETENCIES

- **Technical Leadership:** Experienced in mentoring junior developers, conducting code reviews, and leading architectural decision-making.
- **Technical Writing:** Skilled in writing clear, pedagogical explanations for complex code logic—essential for RLHF and model training.
- **Cross-Functional Collaboration:** Proven ability to translate business requirements into technical specifications for product managers and stakeholders.
- **Remote Work Proficiency:** Over 5 years of experience delivering high-quality work in fully distributed, asynchronous global teams.

PROFESSIONAL EXPERIENCE

DATA ANNOTATION / TELUS DIGITAL | Remote, USA Senior AI Trainer & Software Engineer | Jul 2023 – Present

- **Lead Code Evaluator:** Conduct rigorous technical reviews of AI-generated code snippets in **Python** and **TypeScript**, identifying logic errors, security vulnerabilities, and inefficiencies.
- **RLHF Strategy:** Rank model responses and author "Gold Standard" rewrites to train models on best practices, code readability, and modular design.
- **Model Optimization:** Design complex, adversarial prompts to test model reasoning capabilities in edge cases (e.g., race conditions, memory leaks).
- **Technical Documentation:** Provide detailed, pedagogical rationales for every evaluation, teaching the model *why* specific solutions were superior.

STANDARD CHARTERED BANK | UK (Remote) Senior Backend Engineer | Dec 2022 – Jun 2023

- **Regulated Systems:** Built secure, high-performance backend services for a global banking platform using **Elixir** and **Python**.
- **API Architecture:** Designed versioned, backwards-compatible APIs consumed by millions of users, focusing on data consistency and latency reduction.
- **Observability:** Implemented advanced logging and monitoring to diagnose system bottlenecks in a distributed architecture.

POWER FINANCIAL WELLNESS | Nairobi, Kenya Senior Backend Engineer (FinTech) | Jul 2021 – Nov 2022

- **Scalable Architecture:** Led the backend engineering for a high-traffic fintech platform serving thousands of users across East Africa.
- **Security Integration:** Built secure integrations with third-party payment gateways and mobile money providers.
- **Product Strategy:** Translated complex financial product requirements into reliable, bug-free code, aligning technical decisions with business goals.

ALSOUG.COM | Khartoum, Sudan Senior Backend Engineer | Apr 2020 – Jun 2021

- **System Modernization:** Led the migration from a monolithic legacy system to a modern service-oriented architecture, improving system uptime.
- **CI/CD Implementation:** Established automated testing pipelines to ensure code quality during rapid release cycles.

GLADYS TECHNOLOGIES | Nairobi, Kenya Software Engineer | Apr 2017 – Mar 2020

- **API Development:** Developed core REST and GraphQL APIs using **Elixir** and **Phoenix** that formed the backbone of multiple client applications.

- **Security:** Implemented robust authentication (OAuth/JWT) systems for client applications.

EDUCATION & CERTIFICATIONS

PhD in Software Engineering *California State University, USA | 2019 – 2022*

- **Focus:** Scalable Software Architectures, Distributed Systems, and Performance Modeling.

Software Engineering Program (Full-Stack) *Moringa School, Kenya | Professional Certification*

- **Intensive Bootcamp:** Completed a rigorous, industry-led curriculum exceeding **1,000+ hours** of coding practice.
- **Core Stack:** Mastered **Python (Flask/Django)** for backend logic and **React.js** for dynamic frontend interfaces.
- **Professional Practices:** Operated in a strict **Agile/Scrum** environment with daily stand-ups and weekly sprints. Utilized **Git Flow** for version control, managing merge conflicts and pull requests in team-based repositories.
- **Capstone Project:** Architected and deployed a fully functional full-stack application, demonstrating end-to-end expertise from user authentication to database integration.

MSc in Software Engineering *Lincoln University, UK | 2015 – 2017 | Merit*

BSc in Applied Computer Science *University of Nairobi, Kenya | 2010 – 2014 | Second Class Honours (Upper Division)*

SELECTED PROJECTS

- **Ajali Incident Reporting Platform:** Designed a real-time full-stack application (**Node.js/React**) for emergency incident tracking. Strengthened skills in real-time data handling and user-centered design.
- **Sustainable Maasai Legacy (E-commerce):** Built a custom marketplace platform connecting artisans to global markets, handling payments and inventory.
- **CoinBase iOS Tracker:** Developed a native iOS app for real-time cryptocurrency tracking, expanding expertise into mobile software development.

LANGUAGES

- **English:** Fluent (Native/Academic proficiency)
- **Swahili:** Native (Technical & Localization proficiency)

