



Job Ref. No. **JLIL392**

Position: **AI ENGINEER II (SYSTEMS DESIGN)**

Jubilee Insurance was established in August 1937, as the first locally incorporated Insurance Company based in Mombasa. Jubilee Insurance has spread its sphere of influence throughout the region to become the largest Composite insurer in East Africa, handling Life, Pensions, General and Medical Insurance. Today, Jubilee is the number one insurer in East Africa with over 450,000 clients. Jubilee Insurance has a network of offices in Kenya, Uganda, Tanzania, Burundi. It is the only ISO certified insurance group listed on the three East Africa stock exchanges – The Nairobi Securities Exchange (NSE), Dar es Salaam Stock Exchange and Uganda Securities Exchange. Its regional offices are highly rated on leadership, quality and risk management and have been awarded an AA- in Kenya and Uganda, and an A+ in Tanzania. For more information, visit www.JubileeInsurance.com.

We currently have an exciting career opportunity for an **AI Engineer II (Systems Design)** within **Jubilee Life Insurance Limited**. The position holder will report to the **Head of Data** and will be based at our Main Office.

Role Purpose

The role holder is responsible for operationalizing AI solutions, integrating AI models into production systems, and driving AI initiatives end-to-end with focus on business value delivery. The role combines technical expertise in machine learning, MLOps, and solution engineering with strategic thinking and team collaboration to ensure AI systems are reliable, scalable, and impactful. The ideal candidate has experience deploying AI/ML models, managing ML pipelines, and providing solutions that meet enterprise needs.

Main Responsibilities

Technical Leadership & Architecture

1. Lead the design and architecture of scalable, production-grade AI systems, ensuring reliability, performance, and maintainability across the complete AI lifecycle
2. Make strategic technology decisions, including model selection (GPT-4 vs fine-tuning vs RAG), infrastructure choices, and system design patterns
3. Establish and enforce engineering best practices, code quality standards, and MLOps processes across AI projects
4. Conduct comprehensive code reviews and architectural reviews, providing constructive feedback and ensuring adherence to technical standards

Advanced AI/ML Development

1. Develop and deploy state-of-the-art machine learning models using advanced techniques including deep learning, reinforcement learning, and transformer architectures
2. Implement sophisticated LLM post-training techniques including fine-tuning, RLHF, prompt engineering, and RAG systems with vector databases
3. Design and develop custom CUDA kernels for specific AI architectures to achieve significant performance improvements
4. Build robust ML pipelines handling data ingestion, feature engineering, model training, evaluation, and deployment with comprehensive monitoring
5. Research and implement cutting-edge AI techniques, staying current with latest developments in the field and evaluating their business applicability
6. Optimize model performance through advanced techniques including quantization, pruning, knowledge distillation, and inference acceleration

Team Leadership & Mentorship

1. Mentor and provide technical guidance to junior and mid-level AI engineers, fostering their professional growth and technical development
2. Lead cross-functional project teams, coordinating efforts between engineering, product, data science, and business stakeholders
3. Facilitate knowledge sharing through technical presentations, documentation, workshops, and establishing best practice guidelines

Strategic Collaboration & Stakeholder Management

1. Interface with senior leadership and executives to align AI initiatives with business strategy and organizational objectives
2. Translate complex technical concepts and AI capabilities into business value propositions for non-technical stakeholders
3. Collaborate with product managers to define AI product roadmaps, feature priorities, and success metrics
4. Work closely with data science teams to transition research models into production-ready systems
5. Partner with DevOps and infrastructure teams to ensure robust deployment pipelines and system reliability

Project Ownership & Delivery

1. Own end-to-end delivery of complex AI features and products, from initial conception through production deployment and ongoing optimization
2. Drive projects to completion within established timelines, typically delivering production features within 2-4 weeks depending on complexity
3. Proactively identify and mitigate technical risks, bottlenecks, and dependencies that could impact project delivery
4. Establish and track key performance indicators (KPIs) for AI systems, implementing monitoring and alerting for production models
5. Lead post-deployment analysis and iterative improvements based on production performance data and user feedback
6. Manage technical debt and ensure long-term maintainability of AI systems through refactoring and architectural improvements

Innovation & Research

1. Drive technical innovation by exploring emerging AI technologies, prototyping new approaches, and validating their business potential
2. Contribute to the organization's AI strategy through technical recommendations, feasibility analyses, and architectural proposals
3. Stay ahead of industry trends including advances in LLMs, multimodal AI, edge computing, and AI governance frameworks
4. Identify opportunities for AI-driven automation and efficiency improvements across business processes
5. Foster a culture of experimentation and learning from both successes and failures in AI implementations

People & Culture

1. Mentor junior engineers, fostering technical growth and a collaborative team culture.
2. Encourage knowledge sharing through documentation, workshops, and team discussions.
3. Promote a culture of experimentation, learning, and innovation within the AI team.

Corporate Governance

1. Ensure AI systems comply with internal policies, data privacy regulations, and ethical AI standards.
2. Maintain documentation of models, pipelines, and operational procedures for audit and governance purposes.
3. Participate in AI risk assessments and provide recommendations for mitigating operational risks.

Key Competencies

1. Proven ability to operationalize AI solutions and manage production ML systems.
2. Strong understanding of AI/ML model lifecycle, deployment, monitoring, and optimization.
3. Experience with MLOps practices, pipelines, and tools for scalable AI solutions.
4. Strong problem-solving skills and ability to troubleshoot distributed AI systems.
5. Effective communication and collaboration with cross-functional teams.
6. Strategic thinking with focus on delivering measurable business value.

Academic Qualifications and Relevant Experience

1. Bachelor's degree in Computer Science, AI, ML, Software Engineering, or related technical field (required).
2. Master's or PhD in AI, ML, or Computer Science (preferred).
3. Relevant certifications in cloud AI, ML, or MLOps (advantageous).
4. 4–7 years of hands-on AI/ML engineering experience, with at least 2 years in senior or lead roles.

5. Proven experience operationalizing AI solutions in production environments.
6. Experience implementing MLOps best practices and managing scalable AI workflows.
7. Background in LLM-based solutions, RAG systems, or AI Ops in enterprise contexts.
8. Previous experience mentoring junior engineers and leading cross-functional AI projects.

If you are qualified and seeking an exciting new challenge, please apply via recruitment@jubileekenya.com quoting the Job Reference Number and Position by 11th March 2026.

Only shortlisted candidates will be contacted.