

Hamza Kyamanywa

Technical Founder | Full-Stack AI Engineer

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Professional Summary

Technical founder and full-stack AI engineer based in Seoul. A **zero-to-one product builder with end-to-end ownership**, turning ideas into usable products and refining them toward product-market fit through customer feedback and observed behavior. Currently focused full-time on **HoverNotes**, co-founder and CTO at **Quest**, founder of **JonjaBird**, and president of **USKA**. Previously contracted with **SpaceXAI** on Grok model evaluation. I now write all my code with AI agents.

Professional Experience

Technical Founder

HoverNotes | AI video note-taking SaaS | Remote, United States

Jul 2025 - Present

- Built and grew HoverNotes to **five-figure MRR within its first year**, owning product, engineering, and growth.
- Built a privacy-first AI tool for online video learners, reaching around **20K Chrome/Edge installs** as of June 2026.
- Built the product across Chrome/Edge extension workflows, a Next.js web app, local-first Obsidian workflows, payments, analytics, SEO/i18n, and AI note generation.
- Designed a multimodal video-in, notes-out pipeline where the extension captures realtime video learning context, the web app deduplicates/ranks visual frames, and the backend generates structured notes from transcript plus selected visual context.
- Implemented regional monetization across Stripe for global card payments, China one-time passes via WeChat Pay/Alipay, and India payments via Razorpay/UPI.
- Used product analytics to diagnose AI Notes activation, paywall behavior, platform-specific drop-off, media payload size, warnings, and active-session health.

CTO & Co-founder

Quest | Travel planning software for tour and travel companies | Remote, Kampala (Uganda) | questtheaven.com

Dec 2025 - Present

- Co-founded **Quest** as CTO and lead a 3-person engineering/product team building travel planning software for tour and travel companies in Uganda.
- Built operator workflows for travel requests, destination/accommodation/activity selection, tourists, itinerary planning, accurate pricing, quote generation, travel documents, quote email delivery, billing, analytics, and content libraries.
- Built structured destination/activity/accommodation/transport data workflows across Uganda and East Africa to support itinerary planning, pricing accuracy, documents, and marketing materials.
- Designed quote economics for real operator constraints, including USD/UGX exchange-rate settings, live/manual rate refresh, transport fuel conversion, room pricing, service fees, and quote-level cost summaries.
- Built branded A4 trip documents and quote PDFs, page previews, edit overrides, Cloudflare R2 storage, Resend quote emails, merge tags, sender flows, and PDF attachments.
- Designed the Free + Pro launch model with company-level Stripe subscriptions, full-access trials, billing settings, plan badges, and output-level gates for clean PDFs, email sending, and branding.

Founder

JonjaBird | Agentic AI mailroom | Seoul, South Korea

2026 - Present

- Founded **JonjaBird**, an end-to-end agentic AI system connecting foreign inmates in Korea with families abroad, after seeing the need through USKA.
- Built agent-led mail intake, multimodal letter review, sender/recipient matching, private-audience separation, correspondence routing, and service-request handling.
- Connected the agent to Korea Post through browser automation for outgoing letters, with postal tracking and delivery status flowing back to the member portal.
- Built the authenticated operations API and CLI, persistent agent skills, scheduled queue processing, and exception handling; application code enforces recipient access and payment state.
- Created a repeatable mailroom benchmark using fictional shifts with real agent skills and tools, scoring workflow outcomes and recording cost and time to compare models and catch regressions.
- Built the member/staff portal, private document libraries, Python/WeasyPrint print packets, one-time Stripe Checkout, and private storage supporting the agent's work.

Software Engineer Specialist

SpaceXAI (formerly xAI) | Contract | Seoul, South Korea, Remote

May 2026 - Sep 2026

- Contracted on Grok model evaluation, reviewing AI-generated code against real software-engineering requirements.
- Evaluated correctness, maintainability, performance, security, and alignment with task requirements.
- Wrote evidence-grounded assessments of model-output quality across programming languages and domains.

Senior Full Stack Engineer / Freelance Technical Lead

GoGymi / TexTutor | AI EdTech SaaS | Remote, Switzerland

Jan 2025 - Sep 2025

- Delivered TexTutor, an AI-powered EdTech SaaS platform for Swiss teachers and students, across architecture, dashboards, authentication, billing, AI correction, collaboration, and deployment.
- Built the full-stack product foundation with Next.js 15, React 19, TypeScript, PostgreSQL, Drizzle ORM, Supabase, Tailwind CSS, and Docker.
- Implemented Stripe subscription infrastructure with webhooks, trials, usage tracking, plan enforcement, billing dashboards, and multilingual billing emails.
- Built AI grammar-correction and feedback workflows with formatting preservation, preset/rule management, usage validation, Lexical editing, LiveBlocks collaboration, comments, sharing, and PDF export.
- Contributed 550+ commits across frontend, backend, billing, authentication, AI workflows, and deployment.

Lead AI Engineer

Bebridge Inc. / Slid | 50K+ MAU EdTech platform | Seoul, South Korea

Jan 2024 - Jun 2025

- Led AI product development for Slid, taking on principal-level AI engineering work across web, mobile, and backend systems.
- Shipped LLM-powered auto-notes, AI chat, semantic search, transcript correction, and mobile AI workflows.
- Set technical direction for hard AI/product problems across video learning, mobile constraints, AI quality, and production cost.
- Spearheaded React Native mobile AI features backed by AWS Lambda and FFmpeg video processing.
- Designed LangGraph multi-agent transcript-correction workflows with custom reasoning tools.

Senior Software Engineer / Full Stack Engineer

Bebridge Inc. / Slid | Seoul, South Korea

Jun 2022 - Dec 2023

- Joined as an early engineer and built core product systems across web, Chrome extension, desktop, mobile, payments, authentication, and AI learning features.
- Built early RAG and conversational AI experiences for learning notes using LangChain, Pinecone, embeddings, and streaming responses.
- Pioneered real-time transcription using WebRTC, Socket.io, and cloud speech-to-text providers, then optimized provider strategy for major cost reductions.
- Built cross-platform authentication and payment systems across web, extension, mobile, and desktop, including AWS Cognito, Stripe, and Payple.
- Earned Bebridge Hero Awards in 2022 and 2023 and was promoted from Level 2 to Level 4 in 18 months.

Education

Bachelor of Science in Electrical and Electronics Engineering

Korea University, Seoul

Mar 2019 - Feb 2023

- **GPA:** 4.02/4.5, Cum Laude
- **Scholarships:** Global Korea Scholarship and Ugandan Government Scholarship
- Came to Korea on the Global Korea Scholarship in 2018 and reached TOPIK 5 after eight months of learning Korean.
- **Publication:** Co-authored "Responsible Music Genre Classification using Interpretable Model-agnostic Visual Explainers," Springer Nature Computer Science.

Leadership & Community

President

Ugandans in South Korea Association (USKA)

Aug 2026 - Present

- Lead **USKA**, supporting community welfare, governance, embassy-facing communication, and Uganda-Korea connections.
- Previously served as vice president before taking over as president in 2026.
- Helped formalize leadership values and governance materials around respect, servant leadership, integrity, transparency, and accountability.
- Community work led to founding JonjaBird to help foreign inmates in Korea communicate with their families abroad.

Open Source & Developer Community

Contributed to developer tools and AI/open-source ecosystems including LangChain, Vercel AI SDK, Editor.js, Redux Toolkit, MemGPT, Pytube, FastAPI, and related projects.

Published technical answers and references used by thousands of developers working with WebRTC, speech-to-text, and AI application patterns.

Core Skills

AI/LLM Systems: AI-agent-assisted development, LLM APIs, Whisper, LangChain, LangGraph, RAG, vector search, prompt engineering, multimodal AI workflows, coding-model evaluation

Frontend & Product: Next.js, React, TypeScript, React Native, Tailwind CSS, Lexical, Chrome/Edge extensions, Obsidian/local-first workflows

Backend & Data: Python, FastAPI, Node.js, Express, PostgreSQL, Supabase, Drizzle ORM, MongoDB, Redis

Infrastructure & Ops: AWS Lambda, S3, EventBridge, Docker, Vercel, Cloudflare R2, Hetzner, CI/CD, PostHog, Sentry

Business & Document Systems: Stripe, Razorpay, webhooks, subscriptions, trials, pricing, PDF/automated document generation, email delivery

Languages: Korean (professional working proficiency, TOPIK 5), English and Luganda (native or bilingual)