

Hamza Kyamanywa

Technical Founder, CTO & Senior AI Product Engineer

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PROFESSIONAL SUMMARY

Technical founder, CTO, and senior AI product engineer focused on HoverNotes and Quest, with 4+ years building AI-powered education, productivity, travel, and workflow systems. Founded HoverNotes, now over \$10K/month revenue with around 20K Chrome/Edge installs, and co-founded Quest as CTO, leading a 3-person team building travel planning software for tour and travel companies in Uganda. Also contracted with xAI Human Data on software-engineering model evaluation. Strong in TypeScript/React/Next.js, Python/FastAPI, browser extensions, LLM systems, payments, analytics, automated document generation, and production reliability. Fluent in Korean and English.

TECHNICAL SKILLS

AI/LLM: LLM APIs, Whisper, LangChain, LangGraph, RAG, vector search, prompt engineering, multimodal AI workflows

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 Systems: Stripe, Razorpay, webhooks, subscriptions, trials, pricing, credits, PDF/automated document generation

Languages: Korean (TOPIK 5), English, Luganda

PROFESSIONAL EXPERIENCE

Technical Founder & CEO

HoverNotes | AI video note-taking SaaS | Remote, United States | Jul 2025 - Present

- Founded and built HoverNotes, a privacy-first AI video note-taking product with over \$10K/month revenue and around 20K installs across Chrome and Edge.
- Built the product across a Chrome/Edge extension, Next.js web app, local-first Obsidian workflows, payments, analytics, SEO/i18n, and AI note generation.
- Architected AI Notes workflows that coordinate browser capture, editor state, backend routing, asynchronous job polling, telemetry, and recovery across legacy and modern AI pipelines.
- Designed a multimodal video-in, notes-out pipeline where the extension captures realtime video learning context, the web app deduplicates and ranks visual frames, and the backend generates structured notes from transcript plus selected visual context.
- Built local-first note-taking workflows with Obsidian vault saving, screenshot handling, note history, reconnect/recovery paths, and guardrails against destructive auto-save behavior.
- Implemented monetization and billing infrastructure across Stripe for global card payments, China one-time passes via WeChat Pay/Alipay, and India payments via Razorpay/UPI, including subscription APIs, webhook cleanup, and recurring billing workflow handling.
- 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 and documentation infrastructure | Remote, Kampala (Uganda) | 2026 - Present

- Co-founded Quest and lead technology plus a 3-person engineering/product team for a Next.js travel planning platform for tour and travel companies in Uganda.
- Built operator workflows for travel requests, tourists, destination/accommodation/activity selection, itinerary planning, accurate pricing, quote generation, PDF preview/export, quote email delivery, billing, analytics, and content libraries.
- Designed role-aware platform surfaces for Quest admins and tour operators using Next.js App Router, TypeScript, NextAuth v5, PostgreSQL/Supabase, and Drizzle ORM.
- Implemented structured data workflows for destinations, activities, hotels/lodges, room rates, transport, entry fees, companies, travelers, users, and geography to support more accurate travel planning and quote operations.
- Built a TypeScript/Express PDF generation service that converts travel quote JSON into branded A4 trip documents and quote PDFs with Handlebars, Puppeteer, Cloudflare R2, per-page previews, and an in-browser pagination engine.
- Designed Quest's Free + Pro launch model with company-level Stripe subscriptions, full-access trials, billing settings, plan badges, and output-level gates for clean PDFs, email, and branding.
- Established Vercel QA/release workflows across feature branches, personal QA branches, shared QA, release branches, and production; deployed PDF infrastructure via Docker/Hetzner.

Software Engineering Specialist, Human Data / AI Tutor - Software Engineering (Expert)

xAI / Remote Technology Services | Contract | Remote, United States | May 2026 - Present

- Contracted with xAI's Human Data software engineering track to create and review high-quality coding data for training, benchmarking, and advancing large language models.
- Evaluate AI-generated code across correctness, maintainability, performance, security, test coverage, and alignment with task requirements.
- Rank model outputs using evidence from prompts, diffs, traces, responses, tests, and container checks, then write concise justifications for model training and benchmarking workflows.
- Review coding tasks across Python, TypeScript/JavaScript, Java, Go, Rust, C/C++, databases, distributed systems, AI/ML, security, and performance 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 workflows.
- 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 multilingual product flows across English, German, French, Spanish, and Italian for UI and transactional communication.

- Integrated AI grammar correction workflows with formatting preservation, preset/rule management, usage validation, and educational feedback loops.
- Built rich assignment and feedback experiences with Lexical, LiveBlocks collaboration, comments, notifications, sharing, and PDF export; contributed 550+ commits across the platform.

Lead AI Engineer

Bebridge Inc. / Slid | 50K+ MAU EdTech platform | Seoul, South Korea | Jan 2024 - Jun 2025

- Led AI product development for Slid's learning platform, shipping LLM-powered auto-notes, AI chat, semantic search, transcript correction, and mobile AI workflows.
- Built LLM/Whisper-based auto-notes from video lectures and helped drive measurable engagement and retention gains across learning workflows.
- Spearheaded React Native mobile AI features backed by server-side AWS Lambda and FFmpeg video processing to overcome mobile platform constraints.
- Designed LangGraph multi-agent transcript correction workflows with custom reasoning tools to improve AI-generated learning content quality.
- Optimized AI processing costs through buffering, caching, provider strategy, and production pipeline improvements.

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.
- Shipped multi-format export workflows to Word, PDF, Markdown, and Notion, improving portability and reducing export-related support burden.
- Earned Bebridge Hero Awards in 2022 and 2023 and was promoted from Level 2 to Level 4 in 18 months.

OPEN SOURCE & 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 widely used technical answers and references for WebRTC, speech-to-text, AI application patterns, and production integration issues.
- Served as **Vice President of the Ugandan Community in South Korea**, supporting governance, embassy-facing communication, partnership strategy, and community engagement.

EDUCATION

Korea University, Seoul: B.S. Electrical and Electronics Engineering, Mar 2019 - Feb 2023, GPA 4.02/4.5. Magna Cum Laude; Global Korea Scholarship and Ugandan Government Scholarship recipient.

Co-authored "Responsible Music Genre Classification using Interpretable Model-agnostic Visual Explainers," Springer Nature Computer Science.