Kirlos Yousef

Senior Software Engineer | Full-Stack & Applied AI

kirlosy@icloud.com | kirlosyousef.com | linkedin.com/in/kirlosyousef | github.com/KirlosYousef
Egypt | Open to remote work and relocation

SUMMARY

Senior software engineer with 5+ years shipping production software and leading teams of up to five engineers. Founding engineer on Spookling, an AI workspace (Next.js, iOS, AWS), and co-builder of Spookling Memory, long-term memory for coding agents. Builds evaluated LLM systems: structured extraction, hybrid retrieval with citations, and tool-calling agents over MCP.

PROFESSIONAL EXPERIENCE

Lead Product Engineer | Sellou · Utah, US (Remote) 08/2025 - Present

- Founding engineer on Spookling, an AI workspace: started the Next.js web app and the iOS app (~50k lines of Swift) and led both from first commit through App Store and web launch.
- Streamed LLM chat over SSE on web and iOS; mapped tool calls through typed boundaries to EventKit actions.
- Built workspace and direct-message APIs on AppSync, Lambda and DynamoDB, plus OpenSearch chat search with conversation-level access control.

Senior iOS Engineer / iOS Tech Lead | Sellou · Utah, US (Remote) 02/2025 - 08/2025

- Led the iOS team and mentored two engineers; introduced CI/CD that cut release cycle time by 50%.
- Cut video playback startup 40% with AVKit/HLS and initial download size 20% with On-Demand Resources; built Plot My Calories with OpenAI Vision.

iOS Team Lead | lomob · Barcelona, Spain (Remote) 02/2024 - 02/2025

- Led five iOS engineers delivering LNER and BrightBike at a crash-free rate above 99.9%.
- Added Stripe tokenization to LNER's checkout (now under 8 seconds) and cut trip-planning latency by 35%.

iOS Engineer | lomob · Barcelona, Spain (Remote) 02/2021 - 02/2024

- Built the iOS mobility SDK behind Ford and Renfe integrations, normalizing 10+ providers and cutting partner integration time from weeks to under 2 days; raised core SDK test coverage above 90%.

TECHNICAL SKILLS

Web and backend: TypeScript, React, Next.js, Hono, Python, FastAPI, Pydantic, PostgreSQL, DynamoDB
Applied AI: OpenAI, OpenRouter, structured outputs, tool calling, LangGraph, MCP, RAG, evals
Cloud and delivery: AWS Lambda, AppSync, CDK, OpenSearch, Docker, Cloudflare Workers, CI/CD
Clients and quality: Swift, SwiftUI, SSE, OAuth, pytest, Vitest, XCTest

SELECTED PROJECTS

Spookling Memory | Node.js, Python, MCP | Long-term memory for coding agents GitHub

- Built the installer, Claude Code and Codex hooks, MCP setup and team sharing; shipped 6 npm releases.
- Team benchmark vs keyword search: 103/106 vs 37/106 on changing facts and 0 vs 18 stale answers; tied on LongMemEval at 1/3 of the tokens.

Receipty | Python | LLM extraction, retrieval and agents GitHub

- Built a FastAPI vision pipeline with strict JSON schemas and Pydantic validation: p95 3.4 s, ~$0.0005 per receipt.
- Built a 69-query retrieval eval across 4 strategies (recall@5 1.0) and a LangGraph agent with human approval for writes over MCP; CI runs 178 tests.

AgentLookout | iOS, iPadOS and macOS | AI developer tools App Store

- Shipped solo to the App Store: iOS/iPadOS app, macOS connector and pairing relay that monitor coding agents across 7 tools incl. Claude Code, Codex and Cursor (built on the open-source bot-crossing visualizer).

EDUCATION

B.S. Computer Science, University of Debrecen, Hungary 2017 - 2020

Graduated first in cohort; full scholarship