

Alexander Kostas

Applied AI Engineer × Finance · Production Systems Builder

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SUMMARY

Applied AI engineer who ships production LLM systems end-to-end (a live SaaS + a 40-service agent fleet, built solo) and brings a rare combination: hands-on AI engineering plus real corporate-finance rigor (FP&A, M&A modeling). Python/FastAPI/Next.js; deep Claude/MCP/RAG. Comfortable owning ambiguous problems from first requirement to deployed system.

APPLIED AI — INDEPENDENT PROJECTS & VENTURES

Founder & Engineer — Synthesis Astrology (live SaaS, paying subscribers) 2025 – Present

- Built and operate a production AI SaaS solo: multi-model LLM generation pipeline (Anthropic + open-weight) with prompt engineering, structured outputs, and deterministic validators that gate hallucinations before users see them.
- Next.js/React/TypeScript front end; Python/FastAPI services; PostgreSQL + Redis; fully self-hosted on Linux (Nginx, systemd). Stripe subscriptions, multi-currency geo-pricing, 13-language i18n.

Self-Hosted Multi-Agent AI Infrastructure (independent) 2024 – Present

- Operate ~40 always-on services across cloud Linux VPSs (Hetzner) on a Tailscale mesh — autonomous Claude / Claude-Code agents running real ops, data, and content workflows with error handling, budget controls, and observability.
- Built custom MCP servers, retrieval-augmented generation over PostgreSQL/pgvector, and a LiteLLM multi-model routing gateway (Anthropic + NVIDIA NIM + local Ollama) with hard per-model spend caps.

Founder & Full-Stack Engineer — Synthesis Benefits (Wyoming LLC) 2026 – Present

- Healthcare-adjacent SaaS: Node/Prisma on PostgreSQL (70+ table schema), role-based access, audit logging, Stripe billing — built end-to-end.

PROFESSIONAL EXPERIENCE

Financial Analyst, Corporate FP&A & Strategic Growth — Shields Health Care Group, Quincy, MA Oct 2023 – Present

- Build forward-looking financial models and pro-formas for new initiatives (hospital-system JVs, diagnostic-imaging & ambulatory-surgical expansion); run budgeting/forecasting across 40+ operating entities.
- Built automation into the FP&A workflow with Python and helped implement upgraded financial systems/reporting — turning messy business processes into reliable tooling.
- Conduct due diligence, ROI scenario planning, and board/executive financials for partnerships and market expansion.

Financial Analyst, Corporate Development & Strategy — Ascend Learning, Burlington, MA 2020 – 2023

- Full-cycle M&A (IOI → LOI → close) evaluating acquisition targets from \$100M to \$3B enterprise value: DCF/LBO modeling, synergy/risk analysis, investment memoranda presented to the Investment Committee, Blackstone, CPP, and the Board.
- Designed a competitive-intelligence platform using internal surveys, PitchBook, and automated alerts to monitor markets/competitors; built TAM and target-screening analyses for new verticals.

Private Equity & Investment Banking Intern — Black Eagle Advisors, Boston, MA 2019 – 2020

- Healthcare search fund / M&A advisory: built target workbooks (157 MSAs for a physician-practice roll-up), supported an \$18M-EV sell-side deal; DCF/LBO training.

SKILLS

AI / Engineering: Python · FastAPI · Next.js/React/TypeScript · PostgreSQL/pgvector · LLMs (Anthropic API, Claude Code, tool-use/MCP, RAG, prompt & context engineering) · LiteLLM multi-model routing · REST APIs · Linux · Nginx · systemd · Redis · Stripe · Git · CI/CD

Finance: Financial modeling (DCF, LBO), M&A diligence, FP&A/forecasting · Bloomberg · PitchBook · FactSet · Salesforce · BI

EDUCATION

Bentley University, Waltham, MA — B.S. Economics-Finance, Management minor May 2021