

Begad Alymany

(423) 315-2021 | begadten@gmail.com | linkedin.com/in/begad-alymany | github.com/begadten-cmyk

EDUCATION

- **New York University** New York City, NY
Bachelor's in Computer Science and Mathematics — Courant Institute of Mathematical Sciences Class of 2028

EXPERIENCE

- **AI Engineering Intern, Transcard** (*Fintech, B2B/B2C Payments*) June 2026–August 2026
 - Rebuilt multi-turn conversation handling in Transcard's AI.Insights chatbot (persistent memory, fallback routing, grounded citations) and shipped it to production via a reviewed pull request and the UAT release pipeline.
 - Diagnosed a post-release chatbot failure assumed to be a prompt issue by tracing live debug output, finding unstable intent routing and a retrieval gap across three code paths, then fixed the routing and grounding logic responsible.
 - Closed a critical gap analysis on the platform's shared AI safety library, finding unregistered dependencies that left services unable to build and a dispatcher path that silently bypassed every downstream safety control.
 - Migrated model auth to managed identity, resolved open security advisories by removing a vulnerable dependency instead of patching around it, and surfaced two authorization gaps in the platform API.
- **Software Engineer Intern, GBCS SkyIt Services** (*Aviation Tech*) Mar. 2026–May 2026
 - Built front-end features for a web-based aviation fleet management platform using **TypeScript/JavaScript** and modern component frameworks, working with backend engineers to wire the UI to live APIs and data.
- **Research Assistant, Surgical Robotics Simulation (Dr. Liu Lab)** Oct. 2025–Mar. 2026
 - Built physics-based tissue simulations in **NVIDIA Isaac Sim** using **NeoHookean models** and 3D heightfield visualizations to test robotic behavior pre-hardware.

COMPANIES

- **Founder, Acronix** (*AI Ops Software for Mid-Market Service Businesses*) Present
 - Built a per-client AI automation platform for verticals like freight brokerage, insurance, and property management using a shared component library plus per-client customization, generating **5-figure MRR**.
 - Cut AI runtime costs **60–90%** using tiered model routing, prompt caching, and batch inference; ran Monte Carlo and unit-economics modeling (**LTV:CAC** ~7:1) to guide build decisions.
- **Founder, Medarix** (*HIPAA-Compliant AI for Medical Claim Appeals*) Present
 - Architected a constrained state-machine pipeline (deterministic parsing, LLM-drafted appeals, mandatory physician sign-off) inside an **Azure AI Foundry** compliance boundary to autonomously draft payer denial appeals.

PROJECTS

- **Quant/ML Trading Systems** (*MQL5/Python Automation*) 2024–Present
 - Built and operate automated Forex trading systems in **MQL5/Python** generating **\$10K+ monthly P&L**, deploying strategies across **\$100K–\$1M+** in live trading capital; live API integrations, risk controls, and walk-forward backtesting.
- **ML FX Signal & Alert System** 2024
 - Built a forex candlestick direction predictor in Python (**pandas, XGBoost**) with a **Telegram bot** for live trading alerts and an ATR-based backtester with session filters.
- **SnapStudy, Study Generator** (*Google Gemini Hackathon*) 2024
 - Built a Next.js/React and TypeScript app using the **Google Gemini API** to convert note photos into structured study outputs, deployed on **Vercel** with exportable quizzes.
- **Transfr AI** (*Chrome Extension for AI Context Transfer*) Feb. 2026
 - Built a **JavaScript** Chrome extension that extracts and transfers full conversation context between AI platforms (ChatGPT, Claude, etc.) in one click when usage limits or performance issues occur.

TECHNICAL SKILLS

- **Languages:** Python, TypeScript/JavaScript, C#, C++, SQL, MQL5
- **Web/Infra:** Next.js, React, Blazor, .NET, Flask, FastAPI, Tailwind, Postgres (Supabase), SQL Server, Vercel
- **AI/ML/Cloud:** PyTorch, Azure OpenAI, Semantic Kernel, Azure AI Search, scikit-learn, XGBoost, NVIDIA Isaac Sim, NVIDIA Warp, Azure DevOps, Azure Key Vault, xUnit, Git

ADDITIONAL

- **Coursework:** Data Structures; Algorithms; Computer Organization; Linear Algebra; Calculus I–III; Statistics; Diff Eq
- **Activities:** Muslim Student Association, HackUTK, Google Gemini Hackathon
- **Languages:** English; Arabic | **Citizenship:** United States; Canada; Egypt