

ILAN NABATKHORIAN

SOFTWARE ENGINEER | FULL-STACK · iOS · EMBEDDED · AI

Fairfax, VA | Open to Relocation | (703) 867-7743 | inabatkhorian@gmail.com | ilannab.com | [LinkedIn](#)

WORK EXPERIENCE

RugDesk — Remote

Founder & Software Engineer | Dec 2025 – Jul 2026

- Built and deployed a multi-tenant inventory and AI shopping platform for independent rug retailers, spanning photo-assisted intake, search, recommendations, saved products, and a customer storefront.
- Designed tenant-isolated Supabase/PostgreSQL architecture and a bounded recommendation pipeline that filters available inventory before LLM ranking, then validates structured outputs and product IDs.
- Shipped the full stack with Next.js, TypeScript, OpenAI, Gemini, and Vercel; added deterministic constraints, provider fallbacks, and staff review paths for reliable operation.

Baffe / Prefix — Contract

iOS Software Engineer | Mar 2026 – May 2026

- Sole developer of the initial Prefix iPhone/iPad application, implementing customizable digital props, local media workflows, and independent external-display scenes in SwiftUI.
- Integrated RevenueCat and StoreKit entitlements, shipped the production app to the App Store, and documented and handed the completed codebase to Baffe for ongoing ownership and development.

STraffic America — Vienna, VA

Software Engineer, Embedded Systems | Apr 2025 – Nov 2025

- Developed C# WPF interfaces for customer-facing fare-gate displays, including real-time payment prompts and status messaging deployed across 700+ metro gates.
- Integrated UI state with a third-party payment processor using multithreading and timers to maintain accurate transitions under high transaction volume.
- Built embedded C logic for infrared-sensor clustering and abnormal gate-activity detection with 96%+ accuracy; optimized processing to under 1 ms per 10 ms cycle.
- Authored 300+ xUnit tests across 100+ functions covering concurrency, I/O, hardware communication, and failure paths.

Lockheed Martin — Remote

Software Engineer, Part-Time | Jun 2023 – Apr 2024

- Developed a C# internal request application used across global offices and a Python pipeline that extracted and cleaned data from 110+ Confluence documents.
- Built Confluence/JIRA dashboards to surface a 300+ issue backlog and support planning for a three-month delivery cycle.

KPMG — Chicago, IL

Cyber Security Response Intern | Jun 2022 – Aug 2022

- Investigated malware and insider-threat scenarios using Kibana log analysis and digital-forensics workflows to identify indicators of compromise.

SELECTED PROJECT

FirstSeen — Private production build

Independent Software Engineer | 2026 – Present

- Building a freshness-first job-discovery system that ingests official employer ATS sources, canonicalizes job identity, applies deterministic eligibility rules, and produces explainable ranking evidence.
- Designed a Next.js, TypeScript, Supabase, and Inngest PWA with bounded AI analysis, scheduled ingestion, Slack/web-push alerts, and failure-aware processing.

EDUCATION

George Mason University — B.S. Computer Science, Honors College | May 2024 | GPA 3.77 | Magna Cum Laude

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Swift, Python, C#, C, Java, SQL **Frameworks & Data:** React, Next.js, SwiftUI, WPF, Node.js, PostgreSQL, Supabase, SQLite, REST APIs **Systems & Tools:** OpenAI/Gemini APIs, structured outputs, Inngest, Git, Vercel, xUnit, TDD, JIRA, Kibana