

Ali Hilal

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SUMMARY

Software Developer with 3+ years of professional experience building production systems across .NET, Python, TypeScript, and Azure. Proven track record shipping enterprise automation and AI/OCR pipelines at CFM Materials, plus independently designed and deployed a full-stack CRM, marketing site, and iPad POS for a live DFW business.

TECHNICAL SKILLS

Languages: C#, Python, TypeScript, SQL (MS SQL, PostgreSQL), Swift

Frameworks: ASP.NET, .NET MAUI, WPF, Next.js, React, SwiftUI, SwiftData

Cloud & DevOps: Azure, AWS, Vercel, Supabase, Git, Azure DevOps, GitHub

Architecture: REST APIs, MVVM, MVC, Distributed Systems, Agile and Scrum

Libraries & Tools: API/Webhooks (Anthropic, Quo, Square, Google), PyTesseract, Tailwind CSS, Framer Motion

PROFESSIONAL EXPERIENCE

CFM Materials

October 2023 – Present

Software Developer

Dallas, TX

- Engineered an automated document management system using Python, OpenCV, and PyTesseract, reducing document processing time by **80%** and streamlining daily workflows for multiple teams.
- Developed a digital forklift checklist app with a RESTful .NET MAUI/MVVM backend, automating document generation and SharePoint reporting to replace manual processes and improve compliance tracking.
- Built an AI-powered chat-bot using Azure AI and NLP to translate proprietary company terminology into plain-language responses, reducing support ticket volume and on-boarding friction for new hires.
- Collaborated with operations and IT teams to modernize ERP label printing from COM to USB, improving reliability and reducing manual error rates by **60%**.
- Authored and optimized complex MS SQL queries powering real-time inventory dashboards, supporting daily sales operations across multiple teams.
- Partnered with cross-functional teams (operations, IT, sales) through full SDLC — gathering requirements, conducting code reviews, managing version control via Git/Azure DevOps, and deploying through CI/CD pipelines to ensure reliable, production-ready releases.

LinedanceAI

August 2022 – May 2023

Front-End Software Developer (Intern)

Dallas, TX

- Joined pre-product as a founding engineer on the V1 build of an analytics platform, contributing to system architecture, application flow, and UX decisions alongside senior engineers and product leadership.
- Built the WPF/C# desktop application from scratch, shipping 5+ views, 8+ reusable components, and a custom data visualization suite (3D models, line/bar/pie charts) without relying on third-party charting libraries.
- Owned end-to-end delivery of core features including the home page, user dashboard, and metric visualization, translating Figma designs into production UI and collaborating with backend engineers on API contracts.
- Presented product demos to investors during funding meetings, communicating technical capabilities and product vision to non-technical stakeholders.

PROJECTS

Hilal Coffee CRM | *Next.js 15, TypeScript, Supabase, Postgres, Vercel, Multiple APIs*

June 2025 – Present

- Designed and shipped a full-stack operator CRM (lead pipeline, event lifecycle, SMS automation, team management) with a cron-driven cold-messaging engine, idempotent webhook ingestion (Quo, Square, Google), web push notifications, and Postgres tuning yielding **10–100x** query speedups via partial indexes.

Hilal Coffee Marketing Website | *Next.js 15, TypeScript, Tailwind, Framer Motion*

November 2024 – Present

- Built and deployed a production e-commerce/service site for a DFW mobile coffee bar with 4 transactional API routes, server-side email via Resend, programmatic SEO across 11 city-specific landing pages, Cal.com booking integration, and Vercel Analytics monitoring.

Hilal Coffee POS | *Swift, SwiftUI, SwiftData, iOS 17, StarXpand SDK*

March 2026 – Present

- Built an iPad POS from scratch with thermal label printing (atomic TCP, exponential backoff, persistent retry queue), SwiftData cascade-safe migrations, a configurable modifier system, multi-event merge with de-duplication, and a background printer health monitor used reliably at 5+ hour/high-traffic events.

EDUCATION

University of Texas at Dallas

Dallas, TX

Bachelor of Science in Computer Science, Academic Excellence Scholarship

August 2019 – May 2023