

Khalid Elhousieny.

FORWARD DEPLOYED ENGINEER — AI AUTOMATION & INTEGRATIONS

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Automation-focused engineer with a Computer Science degree who delivers customer-facing automation end to end, from scoping through launch, with no specs and no playbook. Builds production automation in Python and workflow tools (n8n, GitHub Actions); thinks in data flows, edge cases, and failure modes; and ramps up fast in new domains.

EXPERIENCE

Apr 2026 – Present

Field AI Engineer / IT & Billing Manager (Contract) · RIVUS Consulting LLC

Carrollton, TX

- Scoped and delivered an end-to-end AI automation suite for 6+ government contracts: clarified requirements, defined the technical approach, and shipped production Python automation, cutting invoice prep from roughly 3 days to under a day.
- Automated workflows across the customer stack: ADP payroll exports, Microsoft 365 via REST/Graph APIs, and Claude API pipelines parsing invoice PDFs into validated data, eliminating an estimated 35–40 hours of manual work monthly.
- Operated and debugged workflows in live production: monitoring, failure alerting, credential rotation, and validation rules catching edge cases before they reached invoices, delivering 4 consecutive on-time billing cycles.

Aug 2025 – Aug 2026

Implementation Engineer / Operations Manager · Drive Dynamics

Grand Prairie, TX

- Digitized a completely unorganized ~500-SKU warehouse into an inventory app with a structured location system, cutting item retrieval from about 2 minutes to 10 seconds.
- Built a QR-code labeling system that streamlined picking, and standardized order intake and financial close in QuickBooks, cutting recurring order errors from roughly 10 per month to 2–3.

Nov 2023 – Mar 2026

Program Manager · Qalam Institute

Dallas, TX

- Ran live technical production for 6 weekly broadcast and streamed programs, resolving issues in real time; incident analysis and pre-event checks cut AV incidents from several a week to a couple a month.

Sep 2021 – Nov 2022

Product Manager · Course Finder

Redmond, WA

- Launched a consumer web product adopted by 6,000+ students across 15 colleges, setting up recurring user focus groups and interviews to gather continuous feedback on improvements.
- Paired direct user feedback with BigQuery SQL usage data to prioritize features and iterate post-launch.

SELECTED PROJECTS

- **AI Second Brain.** Obsidian-based knowledge system: automated pipelines sync notes and OCR-extract documents (PDF, DOCX, XLSX) into a searchable vault, queried by a custom Claude-powered desktop assistant (Electron/JavaScript) with Microsoft 365 integration.
- **Telegram Contract-Alerts Agent.** Notification agent wired into the billing automation stack: scheduled jobs push real-time Telegram alerts on contract deadlines, missing timesheet data, pipeline failures, and steps needing human action.

EDUCATION

2023

B.S. Computer Science / Software Engineering · University of Washington

SKILLS

Automation

Python (production automation),
Workflow automation (n8n, CI/CD), AI &
LLM automation (Claude API, MCP)

Integration & data

REST APIs & integrations, SQL &
BigQuery, JavaScript (React, Node)

Delivery

Production debugging & monitoring,
Customer-facing delivery, B2B ops & ERP
(QuickBooks, Excel)
