

Usama Kelani

Software & AI Engineer

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SUMMARY

Software and AI engineer who ships production systems end to end: ERP automation parsing 1,500+ purchase-order formats, a bilingual AI WhatsApp platform architected solo, and a self-hosted cloud operated by four AI agents (21 Docker containers, zero open ports, 99.9% uptime). BSc Computer Science with Great Distinction; MBA in progress.

EXPERIENCE

Systems Support & Automation Analyst — Techspan Industries Inc. JAN 2026 – PRESENT

Ontario, Canada

Built Ordex, a Python/FastAPI service that turns customer PDF purchase orders into Epicor Prophet 21 imports across 1,500+ customer formats.

Designed its deterministic-first parsing: local extraction, then OCR and escalating AI providers, with every change gated by a gold-set regression suite of 22 test modules.

Automated endpoint deployment and IT operations across the company fleet using PowerShell, Action1, Group Policy, scripted installs, and self-healing service recovery.

Software Architect & Full-Stack Developer — OnDemand MENA JUN 2025 – DEC 2025

Riyadh, Saudi Arabia · Contract · Remote (Riyadh)

Architected the entire platform solo, from empty repo to working product: Next.js, TypeScript, PostgreSQL, Prisma, Supabase, Redis.

Built the WhatsApp Business API layer: HMAC-validated webhooks, templates, interactive replies, and automated conversation flows via Meta Cloud API.

Engineered the AI concierge with Gemini, Search grounding, and Vision AI: bilingual English/Arabic with RTL, 40+ intent types, location-aware recommendations.

Systems Operations Engineer — AJ Concord General Services Inc. FEB 2025 – NOV 2025

Ontario, Canada

Operations systems for a general contracting firm: workflow organization, documentation standards, and Python/PowerShell data cleanup.

Business Systems Analyst — A & L Accounting Services Inc. JUL 2024 – JAN 2025

Ontario, Canada

Migrated legacy Excel accounting workflows into Karbon and QuickBooks Online, with process mapping, standardized templates, and cleaner client tracking.

Web Developer Intern — TrackPoint.ai FEB 2024 – MAY 2024

Saskatchewan, Canada

Front-end development for an AI communication-training platform.

PROJECTS

AI-Operated Homelab: self-hosted cloud run by 4 AI agents across 2 gateways with tiered model routing (frontier + mediocre open-weight models); 21 Docker containers, zero-trust networking (Cloudflare Tunnel/Access, Tailscale), 31 health monitors, automated backups, 99.9% uptime. usamakelani.com/homelab

Learning Hub: full-stack course platform with an adaptive AI quiz engine, discussions, and progress tracking (Next.js 15, TypeScript, Prisma, PostgreSQL); 9 test suites. github.com/Kelani20/learning-hub-main

Galaxy Gliders: Unity/C# arcade space shooter (64 scripts, boss fights, progression systems), published on itch.io.

EDUCATION

BSc, Computer Science — University of Saskatchewan Sept 2021 – Dec 2024

90.4% average · Great Distinction · Dean's Honour List ×2 · Academic Performance Scholarship

MBA — Carleton University Nov 2025 – exp. Oct 2026

In progress.

CERTIFICATIONS

Microsoft Certified: Dynamics 365 Business Central Developer Associate — Microsoft (May 2025)

Microsoft Certified: Dynamics 365 Business Central Functional Consultant Associate — Microsoft (May 2025)

Claude Certified Architect — Foundations (CCA-F) — Anthropic (June 2026)

SKILLS

Languages & Frameworks: Python, TypeScript, JavaScript, C#, SQL, React, Next.js, Node.js, FastAPI, Tailwind CSS, Unity

AI & LLM Engineering: Multi-agent systems, LLM orchestration, Tiered model routing, Claude (Anthropic), Google Gemini, OCR & intelligent document processing, Vision AI, Prompt engineering, MCP tools

Infrastructure & Cloud: Docker, Linux, Cloudflare Zero Trust, Tailscale, PostgreSQL, Prisma, Supabase, Redis, Git, Regression testing, REST APIs & webhooks

Systems & Business Tools: PowerShell, Epicor Prophet 21, Dynamics 365 Business Central, Microsoft 365 administration, WhatsApp Business API, Fortinet, Group Policy, Workflow automation