

Ibrahim Chehab

Senior Full Stack & AI Engineer

Phone: +961 71 853 017 · Email: ibrahim@chehab.tech · Website: chehab.tech · Lebanon
LinkedIn: linkedin.com/in/ibrahim-chehab · GitHub: github.com/i-chehab

PROFILE

Senior Full Stack & AI Engineer with 10+ years building production SaaS, data-intensive backends, and AI systems. Currently building and operating healthcare platforms at IIS eSolutions spanning pharmaceutical data, on-premises clinical AI, speech processing, and AI-assisted documentation. Previously managed a 5-engineer team through a five-year B2B platform rebuild and customer migration.

SKILLS

Core: Python · Django · Django REST Framework · FastAPI · PostgreSQL · MariaDB/MySQL · Redis · Celery · Docker

Applied AI & Search: BioBERT · MedCPT · FAISS · BM25 · RAG · vector embeddings · spaCy · Presidio · Ollama · faster-whisper · pyannote · Pinecone · Elasticsearch

Frontend: TypeScript · Angular · Vue.js · Nuxt.js · React · Tailwind CSS · Electron · Socket.io

Infrastructure & Delivery: Linux · GPU servers · Gunicorn · Nginx · systemd · GitLab CI/CD · AWS · Cloudflare · structured JSON logging

Engineering: System & schema design · ETL at scale · TDD · CI/CD · API versioning · observability · privacy-aware clinical AI

Previously: Node.js · Express.js · PHP · Laravel

EXPERIENCE

Senior Full Stack & AI Engineer - IIS eSolutions

Hybrid, Lebanon · Jun 2025 - Present

Built and operated two production healthcare platforms spanning pharmaceutical reference data, clinical AI, voice processing, and internal tooling.

- Converted a licensed pharmaceutical dataset of 309 linked tables into a production Django platform with 400+ ORM models across 14 clinical domains, enabling drug search, allergy and interaction checks, prescribing, dispensing, dosing, and patient-medication workflows.
- Built dependency-ordered, idempotent ETL plus the production API, security, caching, and search layers (DRF, JWT/RBAC, rate limiting, Redis/Celery, Elasticsearch), making full dataset refreshes safe, repeatable, and low-risk.
- Built the ICD-10 and CPT autocoding service using historical co-occurrence, BM25, biomedical embeddings, and clinical NLP guardrails to improve ranked coding suggestions while reducing unsafe or unsupported outputs.
- Moved AI inference fully on-premises to company GPU servers and built PHI de-identification, keeping patient data inside company infrastructure rather than sending it to third-party AI APIs.
- Built the clinical voice pipeline in-house with ASR and doctor/patient speaker diarization, then added medical history extraction, note reformatting, and an AI scribe that converts visit transcripts into structured SOAP notes.
- Created a model evaluation and release gate measuring clinical accuracy, unsupported outputs, and hallucination rates on real cases before production approval.
- Built the Angular admin dashboard and owned Linux/GPU production deployment, automated testing, and technical documentation across both platforms.

Stack: Python 3.12 · Django 4.2 · DRF · FastAPI · Celery · Redis · Elasticsearch · MariaDB · PostgreSQL · Angular · TypeScript · FAISS · BioBERT · Ollama · faster-whisper · pyannote · Linux · GitLab CI/CD · pytest

Senior Full Stack Developer & Team Lead - Talentech

Remote · Mar 2020 - Jan 2025 (5-year engagement)

Drove the rebuild of an offline-first B2B retail communications platform used across multi-site retail networks.

- Led a 5-engineer team reporting to the CEO, owning architecture decisions, sprint planning, code reviews, and developer mentorship through the full platform rebuild.
- Migrated 200+ retail sites from the legacy product to a faster offline-first Electron platform with cloud sync and real-time multi-site campaign updates.
- Optimized MySQL schemas, sync flows, and production workflows to keep the desktop client responsive under real-world retail load.

Stack: Node.js · Express.js · Laravel · Angular · Socket.io · Electron · Fabric.js · MySQL · Linux

Independent Software Engineer - Freelance & Contract

Remote · 2015 - Present (concurrent with full-time roles)

- Delivered 20+ end-to-end software projects for clients across Lebanon, Kuwait, and the USA, spanning SaaS, AI/RAG, e-commerce, desktop tools, and custom business systems.
- Owned requirements, architecture, implementation, deployment, and post-launch support as sole engineer or with small subcontracted teams.

Software Engineer (Full Stack Developer) - Cazy Media

Remote · Jan 2018 - Dec 2018

- Built a multi-vendor, multi-currency commerce platform integrating external payment, shipping, and inventory systems.
- Optimized Laravel/Vue/Redis production workloads through query tuning and cache layering, improving application responsiveness and delivery reliability.
- Standardized Linux deployment and server operations for repeatable production rollouts.

Software Engineer (Full Stack Developer) - Dekmak

On-site -> Remote · Jul 2017 - Dec 2018

- Replaced WordPress with a custom Laravel/Vue/Redis CMS, enabling the agency to deliver higher-value custom projects beyond the limits of the legacy stack.
- Improved response times through database-query and Redis-cache optimization, and standardized Linux deployment for repeatable releases.

Frontend Developer - NOVA4

On-site · Dec 2016 - Jun 2017

- Delivered 10+ responsive frontend projects with consistent cross-browser behavior, focusing on mobile usability and page-load performance.

SELECTED INDEPENDENT PROJECTS

2026 - Professional Markdown -> PDF Exporter - Open-source VS Code extension exporting Markdown to polished Arabic (RTL) and English (LTR) A4 PDFs (TypeScript, MIT).

2026 - Lea General Trading - B2B trading portal (Laravel / Vue / Nuxt / Redis).

2026 - BYC - B2B eCommerce portal (Laravel / Vue / Nuxt / Redis).

2025 - FalkerAI - RAG chatbot for product and order assistance (OpenAI + Pinecone).

2020 - Jazly - Multi-country, multi-district eCommerce platform (Laravel / Vue / Nuxt / Redis).

2019 - True Express - Kuwait multi-vendor eCommerce platform (Laravel / Vue / Nuxt / Redis).

2018 - Class Cellulars - eCommerce plus internal PMI recharge, IMEI customs, and printer/ink-stock systems (Laravel / Vue).

2017 - COR Medicine, Educom Overseas, SGU, Istituto Marangoni, Haam, Ata3allam - Healthcare-awareness, study-abroad, news-management, and multilingual web projects.

EDUCATION & CONTINUOUS LEARNING

B.Sc. Computer Science - Islamic University of Lebanon, 2016

Self-directed learning: computer vision, deep learning, unsupervised ML, recommendation systems, and applied clinical NLP; selected work published on GitHub.

Selected learning: Machine Learning Basics · Introduction to Deep Learning · MLOps Fundamentals · Computer Vision Essentials.

LANGUAGES

English - Professional Working Proficiency · **Arabic** - Native