

MUHAMMAD ATHER

Senior Software Engineer | Python, Full-Stack, LLM-powered products

Lahore, Pakistan | Remote, overlapping US / UK / EU hours

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Products: casepitracker.com | vehicledailycheck.com | cyguardpro.com

PROFESSIONAL SUMMARY

Software engineer with ~6 years (since 2020) who designs and ships **production systems end to end, from ambiguous need to running in production**. Built three live products end to end on my own: CyGuardPro (Django/DRF, 300+ data models, 1,000+ API endpoints), CasePI Tracker (FastAPI, 130+ endpoints) and Vehicle Daily Check (Django, Vue 3, Expo, Stripe; built for AEK Tech UK Ltd). Designed a **multi-provider LLM layer** over OpenAI, Anthropic, Azure OpenAI, AWS Bedrock and self-hosted Ollama with per-module gates and usage logging, a **copilot grounded in live customer data**, an **LLM judge** whose verdicts only count when every quote is verified, and embedding-based mapping with a deterministic fallback. At VST (US healthcare) I owned **AI dictation** on AWS Transcribe / HealthScribe and built AI discharge summaries with OpenAI. I work from first principles: decide when model output can be trusted, measure what a change actually did (~65% faster key paths on CyGuardPro, ~40% at VST) and keep a human in the loop where it matters.

TECHNICAL SKILLS

Languages: Python (primary), SQL, TypeScript / JavaScript, C# / .NET Core (earlier)

Backend & APIs: Django, DRF, FastAPI, SQLAlchemy 2, Alembic, developer-facing REST APIs, webhooks (HMAC-signed), JWT, RBAC, multi-tenant isolation, rate limiting

LLM & AI: OpenAI, Anthropic, Azure OpenAI, AWS Bedrock, Ollama (self-hosted models); provider abstraction and routing, usage logging, grounding, intent classification, output guardrails, embeddings, LLM-as-judge evaluation, speech-to-text (AWS Transcribe / HealthScribe); AI-assisted development with review and tests

Data & infra: PostgreSQL, Redis, MongoDB, query and cache tuning, ETL (10K+ records/day), idempotent pipelines, Docker, Docker Compose, Unicorn/Nginx, Linux, systemd, AWS (S3, STS), GitHub Actions CI/CD, pytest

Frontend: React, TypeScript, Vue 3, Expo (React Native), PWA

EXPERIENCE

Lead Software Architect (Contract) | CyGuardPro

Remote | Aug 2025 – Present

Enterprise multi-tenant GRC (governance, risk & compliance) platform — sole engineer, built end to end — cyguardpro.com

- Sole engineer: architected, built, deployed and tested the platform end to end — Django 5/DRF backend with 300+ data models and 1,000+ REST API endpoints, PostgreSQL, Redis, Unicorn/Nginx, Vue 3 client; ~65% faster key paths after query and Redis tuning.
- Designed the LLM layer: one abstraction over OpenAI, Anthropic, Azure OpenAI, AWS Bedrock and self-hosted Ollama, with per-module AI gates and usage logging, so each feature can run on a hosted or on-prem model without code changes.
- Built a copilot grounded in live organisation data, with intent classification and stripping of fabricated control codes; an LLM judge checks evidence against each control's objectives and downgrades any verdict whose quote it cannot find in the source.
- Embedding-based cross-framework mapping (Ollama nomic-embed-text) with a deterministic Jaccard fallback; AI suggestions are accept/dismiss, so AI never silently changes customer data.
- Built 60+ read-only collectors across 13 platforms (Microsoft Graph, AWS S3 via Boto3, Check Point) behind one registry and idempotent ingestion layer; scheduled runs with row locking, manual runs and HMAC-signed webhooks; a Python connector agent shipped as Windows and Linux binaries.

Python, Django 5, DRF, PostgreSQL, Redis, OpenAI / Anthropic / Azure OpenAI / Bedrock / Ollama, AWS / Boto3, Vue 3, Docker, Nginx

Founder & Full-Stack Engineer | CasePI Tracker

Remote | Sep 2026 – Present

Lien/LOP case-workflow SaaS for US personal-injury medical providers — sole engineer, built end to end — casepitracker.com

- Designed and built the FastAPI + SQLAlchemy 2 + PostgreSQL API (130+ endpoints, ~40 models, 28 Alembic migrations) and React/TypeScript client, deployed with Docker Compose, Nginx, systemd and GitHub Actions.
- Rule-based case routing that records why each case was assigned, scheduled reminders and work queues, SQL reporting with Excel/PDF export; per-practice RBAC, audit log, TOTP MFA and rate limiting; migrated four case portfolios off a legacy MongoDB system with idempotent, dry-run importers.

Python, FastAPI, SQLAlchemy 2, Alembic, PostgreSQL, React, TypeScript, Docker Compose, GitHub Actions

Software Engineer (Contract) | AEK Tech UK Ltd

Remote | Jun 2026 – Present

Vehicle Daily Check — UK fleet-compliance SaaS, built end to end for AEK Tech UK Ltd — vehicledailycheck.com

- Built end to end for AEK Tech UK Ltd: Django/DRF API (11 apps, 110 URL paths, 45 test files), Vue 3 PWA and Expo app for 12-section daily vehicle checks with photo evidence and PDF proof.
- Stripe Checkout, subscriptions and per-seat billing; signed webhooks de-duplicated by event ID, an idempotency key on checkout and a reconcile job to catch drift; feature-flagged releases and scripted Linux deploys.

Python, Django, DRF, PostgreSQL, Redis, Stripe API & webhooks, S3-compatible storage, Vue 3, Expo, Linux

Lead Software Engineer (promoted from Senior Software Engineer) | VST Inc.

Remote (US) | Jul 2024 – Sep 2026

Lead Software Engineer

Oct 2025 – Sep 2026

Senior Software Engineer

Jul 2024 – Sep 2025

Insight Care — established HIPAA-regulated US healthcare platform, built with a product team (50+ Django apps, 15+ integrations)

- Owned AI dictation and clinical notes on AWS Transcribe / HealthScribe, and built AI discharge summaries with OpenAI that include the nurse summary.
- Owned core modules PI Tracker, Patient Survey, the Patient and Nurse Dashboards and RCM reporting, connected with emergency, outpatient and inpatient workflows, claims and billing.
- Built integrations and automation: inbound HL7 v2 API (8 message types), EHR worklist sync with per-run audit records, a reference-data REST API and scheduled SFTP file jobs with S3 archiving and run locks; enhanced and extended the Claim.MD and ScriptSure integrations.
- Tuned ETL (10K+ records/day) and hot-path queries for ~40% faster processing; as Lead, mentored 2 engineers through code review.

Python, Django, PostgreSQL, MongoDB, Redis, AWS (S3, Transcribe), OpenAI, SFTP, APScheduler, HL7, FHIR, Docker, CI/CD

Software Engineer (Contract) | Adnare

Remote | Dec 2021 – Aug 2022

Healthcare practice-management integrations in C#/.NET Core: HL7 ADT messaging (registration, visit, discharge), CMS-1500 claims and CPT modifiers, and unit-tested client-specific integrations.

Software Architect (Contract) | Confidential Public Sector Client

Remote | Oct 2020 – Present

Long-running software architecture contract; client and project details are confidential.

EDUCATION & CERTIFICATIONS

B.Sc. Engineering (Software Engineering), University of the Punjab (PUCIT), 2016–2020

Certifications: [Full-Stack Web Developer, micro1 \(2025\)](#) | [WES Canada credential evaluation: four-year bachelor's degree equivalency](#) | English: fluent (IELTS 6.5)