Muhammad Ather

Lead Software Engineer | AI for Healthcare and Compliance Products | Python, Django, LLMs

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SUMMARY

Lead engineer building AI-powered healthcare and compliance products, with 6+ years of experience in Python/Django and production software engineering. At CyGuardPro, lead development of enterprise GRC capabilities including AI evidence validation, asset intelligence, multi-provider LLM workflows and a grounded copilot. At VST Inc., delivered physician-reviewed AI discharge summaries and led AI dictation and clinical notes. Experienced in architecture, end-to-end product delivery, security, integrations and mentoring engineers.

SKILLS

AI Engineering: OpenAI, Anthropic, Ollama, grounded copilots, quote-verified evidence judge, AWS Transcribe/HealthScribe, human-in-the-loop, Cursor/Claude

Backend: Python, Django, DRF, FastAPI, SQLAlchemy, REST APIs, webhooks, multi-tenancy, APScheduler

Frontend: Vue 3, React, TypeScript, PWA, Tailwind

Data and Infrastructure: PostgreSQL, MongoDB, Redis, AWS (S3, Transcribe, CodeDeploy), Cloudflare, Nginx, GitHub Actions

Healthcare and Compliance: HL7 v2, FHIR, X12 837/835, HIPAA, GRC, RBAC, MFA, audit logs

Additional: C#, ASP.NET Core, Angular, Hono, BetterAuth, Drizzle, Expo/React Native, Stripe, MSSQL, Oracle

EXPERIENCE

Software Architect | Confidential public-sector client | Contract, Remote **Oct 2020 to Present**

Renewed annually since Oct 2020. CyGuardPro is developed under this contract; client and internal system names remain confidential.

CyGuardPro, multi-tenant GRC with human-reviewed AI | Lead Engineer | cyguardpro.com **Aug 2025 to Present**

Built most of the platform (1,714 of 2,011 commits); led a junior engineer.

- **Performance engineering:** reduced Check Point evidence collection time from 9.7s to 3.2s by pooling and parallelizing 12 API calls; reduced Global View dashboard response time from 4.7s to 2.3s.
- **AI with human review:** AI evidence validation, asset intelligence with confidence scores, a multi-provider LLM engine (OpenAI, Anthropic, Ollama), quote-verified evidence evaluation, and a page-aware, organization-grounded copilot across 134 application pages.
- **Scale:** 333 models, 1,091 API routes, 27 frameworks, 1,487 automated tests (Django/DRF, Vue 3).

Stack: Python, Django 5, DRF, PostgreSQL, Redis, Vue 3, OpenAI, Anthropic, Ollama

Other systems for this client

- **Nationwide intranet** used by 4,000+ users across Pakistan, still in heavy daily use.
- **Attendance analytics:** daily biometric exports into live leadership reports.

Stack: Python, Django, PostgreSQL, Vue 2

Lead Software Engineer | VST Inc. (US healthcare) | Remote **Jul 2024 to Sep 2026**

Lead Oct 2025 to Sep 2026; Senior Jul 2024 to Sep 2025. HIPAA-regulated InsightCare platform. 2,626 commits, 3rd of 35 contributors.

- **AI discharge summaries:** implemented gpt-4o-mini-generated drafts for physician review and sign-off; also delivered AI-generated nurse summaries.
- **Owned AI dictation and clinical notes** on AWS Transcribe/HealthScribe (top of 8, 109 commits); brought AI-suggested ICD/CPT codes into notes, order sets and the patient dashboard.
- **Integrations and BI:** HL7 v2 API (8 message types), daily ERA 835 SFTP sync, Reference Data API over a 52,000-entry chargemaster; built BI Analytics from scratch (86% of code, ~40% faster data ingestion). Main author of PI Tracker (personal-injury case tracking).
- **As Lead:** mentored 3 juniors, merged 723 PRs, removed hard-coded AWS keys after a security audit.

Stack: Python, Django, DRF, Vue.js, MongoDB, PostgreSQL, Redis, AWS, OpenAI, HL7, FHIR, X12 835

Technical Lead, Engineering Owner | AEK Tech UK Ltd | Part-time, Remote **Jun 2026 to Present**

- **Vehicle Daily Check** (vehicledailycheck.com), Jun to Jul 2026: UK fleet compliance SaaS from first commit to live Stripe billing in ~4 weeks; solo Django/DRF API (110 REST paths), Vue 3 PWA, Expo app, 460 tests.
- **Billing and jobs:** per-seat Stripe subscriptions with signed, de-duplicated webhooks (52 billing tests); 16 scheduled jobs on 7 systemd timers.

Stack: Python, Django, DRF, PostgreSQL, Stripe, Vue 3, Expo, Nginx

Software Engineer | Adnare | Contract, Remote **Dec 2021 to Aug 2022**

- Web APIs and product features for a US software company in C#, ASP.NET Core and Angular (MSSQL, Oracle).

PROJECTS

CaseFlow PI | multi-tenant case-operations platform (own product) | caseflowpi.com **Jul 2026 to Oct 2026**

Greenfield FastAPI + React, built end to end; live demo for showcase. Demo: demo.caseflowpi.com (synthetic data).

- **End-to-end platform:** FastAPI + SQLAlchemy 2 + PostgreSQL (130+ endpoints, ~40 models, 28 migrations) and a React/TypeScript client (27 pages).

- **Security and ops loop:** RBAC, per-org scopes, audit log, TOTP MFA; rule-based routing, reminders/alerts, S3-compatible attachments, Excel/PDF exports, dry-run data importers.

Stack: Python, FastAPI, SQLAlchemy 2, PostgreSQL, React, TypeScript, APScheduler, Cloudflare R2, Nginx

Anwar-e-Khalique Book Reader | Full-Stack Engineer | app.anwarekhalique.com **Oct 2026 to Nov 2026**

Free secure PWA reader for a non-profit trust (1,054 pages / 16 chapters).

- **Rebuilt offline Flutter app as React PWA** with AES-256-GCM encrypted pages, server-side decryption and per-user tiled watermarks; no PDF/download route.
- **Production hardening:** Cloudflare Full (strict), Turnstile, rate limits, CSP/HSTS; median page-image API ~0.2s repeat / 0.6–0.9s first view.

Stack: React PWA, Hono, BetterAuth, Drizzle, PostgreSQL, nginx, Cloudflare

Spotter ELD Trip Planner | public repo

- Route planner with duty timeline and ELD log sheets (Django REST, React, TypeScript, Leaflet; 47 tests).

EDUCATION AND CERTIFICATIONS

BS Software Engineering | PUCIT, University of the Punjab, Lahore **2016 to 2020**

WES Canada: four-year bachelor's equivalency (verify) · micro1 Certified Full-Stack Developer, Jun 2025 (certificate) · English (IELTS GT 6.5); Urdu, native