

Muhammad Taimoor Azam

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SUMMARY

Full-Stack Software Engineer with 3 years designing, building, and operating production SaaS, desktop, and real-time apps for clients across five countries. Technical depth across TypeScript, React/Next.js, Node.js, Python, PostgreSQL, and Electron. Strong bias towards performance and offline-first design cut a production CRM's memory **66% (300MB to 100MB)** and cold start **8× (8s to 1s)**. Recently shipped fully offline systems, including a gesture-controlled voice assistant (MediaPipe) and an ML-based malware classifier (**XGBoost, TabNet**).

WORK EXPERIENCE

CGI Inc — Full-Stack Developer

Canada (Remote) | Feb 2026 – July 2026

- Building **Vaypar.pk** for a Canadian client: a multi-industry business management SaaS unifying CRM, inventory, POS billing, and analytics in one **Next.js + PostgreSQL** configurable for **8+ verticals**.
- Engineered the real-time transaction flow every sale instantly updates stock levels, customer balances, and **ledgers across devices** and added **barcode/QR billing**, low-stock alerts, and OCR bill-scanning.

Codeory — Full-Stack Engineer

US (Remote) | Jan 2025 – Jan 2026

- Built and shipped a cross-platform SaaS CRM end-to-end **Next.js frontend, Node.js REST APIs, PostgreSQL** data layer packaged with Electron into a single desktop product.
- Cut the app's memory **footprint 66% (300MB -> 100MB)** and cold start **8× (8s -> 1s)** via bundle splitting, lazy loading, and runtime data management.

FuzeGenAI — Full-Stack Developer

US (Remote) | Sep 2024 – Jan 2025

- Re-engineered one web codebase into **three production targets** React Native, Electron desktop, and PWA on a shared PostgreSQL backend, shipping a production build **under 50MB** for storage-constrained users.
- Optimized map-data processing across Python services and Node.js APIs, eliminating redundant round-trips and slimming payloads so map-heavy screens stay fast on slow connections

Self-Employed — Full-Stack Developer

(Remote) | Sep 2023 – Sep 2024

- TypeScript analytics APIs & dashboards for **Soldo (UK)**, **Auth0 + AWS/GCP** deployments (US), Three.js 3D sites for **BYSARAD (UAE) & 3D Research (Italy)**.

PROJECTS & OPEN SOURCE

Ultron — Fully Local Voice-Controlled Assistant

(2026)

- Built Ultron, a JARVIS-style assistant: 3D particle orb controlled by hand gestures via webcam (MediaPipe), voice commands that control an Android phone over ADB, running 100% locally with zero paid APIs.

stac-fastapi-pgstac (stac-utils) — Open Source Contributor

(2026)

- Authored a security patch for CVE-2026-48710 in stac-fastapi-pgstac, the open-source PostgreSQL backend for STAC geospatial APIs, and submitted it upstream (PR #399).

EDUCATION

The University of Lahore — BS Computer Science

LHR, PK | 2023 — Expected 2027

SKILLS

- Python, JavaScript, TypeScript • React, Next.js, React Native, Three.js, Tailwind • Node.js, Express, Django, Flask • PostgreSQL, MongoDB • XGBoost, TabNet, scikit-learn, Explainable AI • AWS, GCP, Electron, ADB, Git • MediaPipe, Web Speech API, Blender • Performance Optimization, Real-Time Systems, REST API Design