

AMAR ABDUR REHMAN

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SUMMARY

Full-stack software engineer and final-year Computer Science student who builds and runs production software. Built ToffeeOS, a multi-tenant restaurant POS that two cafés use for 200+ orders a day, backed by 561 automated tests. Founder of Krimsols, delivering and maintaining software for 20+ paying clients since 2024. Strong in Python and TypeScript (FastAPI, Next.js, Node.js, PostgreSQL) with a daily AI-assisted workflow. Open to remote roles.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, C++, C, Rust
Frontend: React, Next.js (App Router), Tailwind CSS, Flutter, HTML, CSS
Backend: FastAPI, Flask, Node.js, Prisma, REST APIs, WebSocket, MQTT
Databases: PostgreSQL (Supabase, Realtime), SQLite
Testing: Playwright (end-to-end), Vitest (unit), pytest; integration, data-isolation and multi-tenant testing
AI/ML: OpenCV, YOLO, PyTorch, OCR, NLP (TF-IDF, cosine similarity)
Cloud & Tools: Vercel, AWS EC2, Supabase, Git/GitHub, OpenMP, MPI, AI coding agents (Claude Code, Cursor)

EXPERIENCE

Founder & Software Engineer, Krimsols 2024 – Present

- Build and maintain websites, restaurant software and AI tools for cafés, restaurants and small businesses; 20+ paying clients.
- Own each project end to end: requirements, pricing, development, deployment and ongoing support.
- Built spillpk.com, a scroll-driven brand site with a QR scan-to-join digital loyalty card (Next.js, Vercel).

AI/ML Intern, GOFTECH Solutions (Remote) Jul 2026 – Sep 2026

- Built RecruitAI, a resume screening tool that ranks up to 1,000 resumes per batch against job criteria using TF-IDF and cosine similarity (Python, Flask), with explainable scores and no per-resume API cost.
- Worked on data preprocessing, batch-processing pipelines and performance at scale; supervised by a DevOps engineer.

Python Developer Intern, CodeAlpha (Remote) Mar 2025 – Apr 2025

- Python automation and scripting tasks on real-world projects, using SQL.

Web Developer (Part-time), Evangeline Media 2023 – Present

PROJECTS

ToffeeOS: Multi-tenant Restaurant POS (toffeeos.com) Next.js, TypeScript, Prisma, Supabase, Vercel

- Built and deployed a multi-tenant restaurant platform live at two cafés (SPILL and Loom), handling 200+ orders a day: POS, kitchen display, inventory, delivery riders, QR table ordering and reports.
- Keeps taking orders and cash payments during internet outages; applies Punjab PRA tax rules (16% cash, 8% card) per bill.
- Wrote 333 Playwright end-to-end and 228 Vitest unit tests covering order totals, billing, data integrity and tenant data isolation; the suite runs before every release.
- Caught a Prisma transaction timeout (P2028) before production: tenant deletion made 49 sequential database round trips (5.3s against a 5s limit).

Automated E-Challan System Python, OpenCV, OCR

- Computer vision pipeline that detects drivers without seatbelts, reads the number plate with OCR, retrieves the owner's record and generates the challan with no manual steps.

Real-time Object Detection Python, OpenCV, YOLO, PyTorch

- Detects and labels 50+ types of real-world objects from live video.

AutoTwin: Zero-Trust Security Sandbox (Final Year Project) Unreal Engine 5.5, Flutter, FastAPI, MQTT

- JSON floor plans become walkable 3D buildings where 50+ simulated agents pass token-based access checkpoints during a MITRE ATT&CK-aligned intrusion scenario that produces a Route Risk Score.
- Team lead for Frontend UI & Analytics in a 3-person team: Flutter Command Center and the Insight Engine (occupancy heatmaps, risk scoring); RSA-2048 and AES-256-GCM encryption.

EDUCATION

BS Computer Science, COMSATS University Islamabad Expected Jul 2027

- Relevant coursework: Parallel and Distributed Computing (C++ with OpenMP on AWS EC2, MPI in C), Advanced Web Development, Compiler Construction.