

Ahad Amir Lodhi

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EXPERIENCE

HydraLabs — Atapata

Apr 2025 – Present

Founder & Software Engineer | Incubated at NIC NED | [atapata.app](#)

Karachi, Pakistan

- Built and shipped a digital business card platform for the Pakistani market as sole founder and engineer, profiles shared via NFC tap, QR, or WhatsApp link, with edits propagating to every saved contact.
- Architected a React Native (Expo) app, a NestJS/Prisma/PostgreSQL API on Railway, and a Next.js web app on Vercel, with Cloudflare R2 storage, BullMQ job queues on Redis, and OTA releases via EAS Update.
- Shipped AI card scanning (Claude Haiku OCR) that parses paper cards into a contacts inbox, plus voice notes and location tagging per contact, and a read-time entitlement system for scan quotas and paid tiers.
- Ran go-to-market end-to-end, TestFlight beta, Safepay subscription billing, and a Founding Members campaign.

StitchGrab

Oct 2024 – Jun 2026

Software Engineer

Karachi, Pakistan

- Led architecture and delivery of a production multi-vendor marketplace (Next.js, React, Node.js, TypeScript), onboarding 10+ vendors and scaling to thousands of concurrent users.
- Designed 15+ REST APIs across the vendor and customer lifecycle; collaborated with cross-functional stakeholders to define requirements and API contracts, cutting average response latency by ~40%.
- Orchestrated a two-way Shopify inventory sync via GraphQL webhooks, superseding a polling architecture and eliminating 100% of overselling bugs across all product lines.
- Implemented geospatial search with proximity-based delivery routing across a 50km radius, trimming average delivery ETAs by 30%.

Dawlance (Beko Group)

Jul 2024 – Sep 2024

Management Trainee / R&D

Karachi, Pakistan

- Spearheaded an automated computer vision QC system (Raspberry Pi, OpenCV), applied data-driven threshold optimisation to replace a fully manual process, cutting inspection time from 4 minutes to under 30 seconds (~60% effort reduction).
- Streamlined AC lab data extraction, analysing failure trends across 3 disparate sources; consolidated into 1 dashboard, saving ~10 hours/week and raising defect accuracy by ~25%.
- Selected as Top Trainee from ~30 interns after presenting QC system results to senior R&D leadership; awarded PKR 200,000 for outstanding contribution.

PROJECTS

StatSnap - Basketball Stat Tracker

Feb 2024

Personal Project | Python, YOLOv8, ByteTrack

- Built a live player tracking pipeline (YOLOv8 + ByteTrack) with persistent player IDs across occlusions at ~30 FPS.
- Applied HSV k-means clustering for unsupervised team classification by jersey colour, removing labelling.

Jobify - Automated Job Application Pipeline

Jan 2024

Personal Project | n8n, Apify, Gemini API

- Built a job search automation system (n8n, Apify, Gemini API) that scrapes listings and scores role-fit.
- Added a Gmail OAuth outreach layer for recruiter messaging, cutting manual application effort by ~90%.

EDUCATION

GIK Institute of Engineering Sciences and Technology

Aug 2020 – Jul 2024

Bachelor of Science in Computer Science

Topi, Pakistan

TECHNICAL SKILLS

Stack: React, React Native, Next.js, TypeScript, Node.js, NestJS, Prisma, PostgreSQL, Redis, GraphQL, REST APIs, Python

Tools: Git, Docker, CI/CD, Expo/EAS, Stripe Connect, OAuth 2.0, n8n, Claude API, OpenCV, YOLOv8, Agile, Cross-functional Collaboration