Khizar Amin

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Experience

PackageX — Islamabad, Pakistan
Forward Deployed Engineer (Backend & AI); Senior Node.js Developer until Apr 2026 — *Jan 2024 – Present*

- Map client operations into modular PackageX Workflows for $250K+ ARR accounts; built 20 production workflows (900+ blocks) for a fresh pet-food brand, with NetSuite, Shopify, Onfleet and Ordergroove behind proxy workflows that own OAuth 2.0/JWT auth, token refresh and idempotent retries.
- Shipped AI-assisted inbound receiving: vision label inference (OCR + LLM extraction) routes each package to a purchase order, a resident or an exceptions queue, with Entra ID, EMR and Business Central integrations.
- Built core SaaS APIs in Node.js, TypeScript and Prisma on MySQL, owning the asset lifecycle module; engineered Memcache-style Redis leases for idempotent writes and made PDF generation 3.5x faster.
- Built a remote orchestrator for Claude Code agents (parallel sessions in isolated git worktrees, live browser terminal), used daily for code generation, reviews and task routing.

Bridgelinx — Lahore, Pakistan
Lead Backend Engineer — *Feb 2022 – Jan 2024*

- Led two engineers building the backend for 9 web and mobile apps on Node.js, Apollo GraphQL and Neo4j.
- Migrated >95% of legacy Firebase data to a unified Neo4j/GraphQL schema with minimal data loss.
- Ran AWS (CloudFormation, EC2, S3, Lambda, SQS) and push-to-deploy CI/CD, cutting deployment overhead by 50%.

Projects & Research

Cost-Effective Content Moderation using LLMs | *MS Thesis, LUMS* — 2024 – 2025

- Benchmarked LLMs against human moderator decisions on Reddit communities' own rules (inter-rater agreement, cost and latency per model) and fine-tuned GPT-4o-mini as a cheaper judge.
- Built a LangGraph multi-agent pipeline for rule classification and enforcement with guardrails, plus agent- and community-specific semantic caching (RedisVL, LangCache, all-mpnet-base-v2) to cut inference latency and API cost.

Distributed PostgreSQL Sharding Proxy | *Go, PostgreSQL, Docker* — 2026

- Built a Go proxy that shards PostgreSQL with consistent hashing (150 virtual nodes, MD5), runs concurrent scatter-gather queries, replicates broadcast tables and coordinates cross-shard transactions with two-phase commit (2PC).

Raft Consensus and Replicated Key-Value Store | *Go* — 2024

- Implemented leader election, log replication, commit indexing and persistent state, with a key-value service that stays consistent through crashes, network partitions and split-brain scenarios.

Technical Skills

Languages: TypeScript, JavaScript (Node.js), Go, Python, SQL, C++
Backend & Data: REST, GraphQL, Prisma, MySQL, PostgreSQL, Redis, Neo4j, Elasticsearch
AI & Agents: Claude API, Claude Code, LangGraph, LangChain, RedisVL, semantic caching, multi-agent systems, guardrails, vision/OCR extraction
Integrations: NetSuite (SuiteQL, REST), Shopify Admin GraphQL, Business Central, Microsoft Graph / Entra ID, Onfleet, Ordergroove, OAuth 2.0 / JWT, SFTP
Infrastructure: AWS (EC2, S3, Lambda, SQS, CloudFormation), GCP Cloud Functions, GitHub Actions, Docker, Vercel, Sentry, Linux

Education

Lahore University of Management Sciences (LUMS) — Lahore, Pakistan
MS in Computer Science; Merit Scholarship (60% fee waiver) — *Aug 2022 – May 2025*

FAST National University (NUCES) — Lahore, Pakistan
BS in Computer Science; President, SOFTEC 2018 (led 200+ team members) — *Aug 2014 – Jan 2019*