

MUHAMMAD ABDULLAH CHEEMA

Backend and Platform Engineer

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Backend engineer with six years on production systems, most of it in Python. Built a multi-tenant identity verification platform from scratch as a founding engineer, serving banks and startups from one codebase across shared and on-premises deployments. Since then I have worked on distributed event pipelines, PostgreSQL replication and failover across datacenters, and hardened Linux deployments in environments with no managed cloud services underneath.

TECHNICAL SKILLS

Languages: Python, Go, JavaScript, TypeScript, Bash, Kotlin, Java

Backend: Django, Django REST Framework, FastAPI, Node.js, REST API design, microservices, WebSockets, Celery

Data: PostgreSQL (streaming replication, tuning), Redis, MongoDB, Elasticsearch, SQLite

Infrastructure: Docker, Docker Compose, Nginx, Ansible, GitHub Actions, Linux administration

Cloud and deployment: AWS (EC2, S3, RDS, SSM), Azure, on-premises and air-gapped delivery, Samba Active Directory, Wazuh SIEM, Nexus Repository

Architecture: Multi-tenant SaaS, high availability and disaster recovery, third-party API integration, event-driven pipelines

PROFESSIONAL EXPERIENCE

Software Engineer

Dec 2024 – Present

InnovaTech

- Build and maintain the Django REST backend for BAIQA, a video analytics platform, covering event ingestion APIs, operator dashboards and the services that deliver events to users in under a second across 1,000+ concurrent streams.
- Designed the event delivery path between GPU inference workers and the web tier, with queuing and automatic recovery so that events survive worker restarts and network drops.
- Ran the high-availability work required for government certification: PostgreSQL streaming replication with standby servers in a second datacenter, configured over direct SSH on a regional cloud provider with no managed database or failover service available.
- Cut per-server deployment from roughly two hours to ten minutes using Docker and Ansible.
- Deployed the supporting infrastructure the certification required, including Active Directory authentication, centralized audit logging, SIEM monitoring and an internal artifact repository for air-gapped installs.

Founding Engineer and Solutions Architect

Apr 2020 – Jun 2023

TruID Technologies (Pvt) Ltd

- Designed TruID's identity verification platform as a multi-tenant system on a single shared PostgreSQL schema, so startups could sign up and integrate the SDK directly while banks that required it ran the same codebase on-premises as a single tenant.
- Built the Django and FastAPI backend and the tenant-scoped API layer the client SDKs called, integrating the ML models behind biometric verification.
- Wrote the native Android SDK (Kotlin, Jetpack Compose, ML Kit) and iOS SDK (SwiftUI, Vision) that banks embedded in their own apps.
- Set up Docker and GitHub Actions pipelines that shipped the same release to AWS and to bank-controlled on-premises servers under regulatory constraints.
- Worked directly with banking clients on integration, architecture and deployment requirements.

Freelance Backend Developer

2020 – Present (alongside full-time work)

Independent

- Built Parcel Plus, a Shopify app for Pakistani merchants: Django backend, courier API integrations, webhook processing and WhatsApp-based delivery verification.
- Built TenaxAI, a property inspection app with an offline-first encrypted SQLite queue, resumable S3 uploads through presigned URLs, and an AWS backend on RDS, S3 and SSM.

EDUCATION

Master of Business Administration, LUMS

Aug 2023 – May 2025

BS Computer Science, NUCES, Islamabad

Aug 2016 – May 2020

- Led development of nascon.org.pk (1,900 paid registrations, 10,000+ visitors).