

Aqib Ali Ghumro

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PROFESSIONAL EXPERIENCE

Software Engineer (Full-Stack) – Touchperia

Jul 2025 – Present

- Developed and maintained scalable backend APIs and frontend features for Makaanza, a production marketplace platform.
- Built HairZone end-to-end as a mobile-only barber booking app using Flutter and React Native, handling UI, authentication, business logic, and production support.
- Delivered an internal HR Management System covering employee records, payroll, attendance tracking, and onboarding workflows.
- Designed and shipped RESTful APIs with third-party service integrations, ensuring secure data handling across all platforms.
- Managed CI/CD pipelines, AWS cloud infrastructure, and server monitoring to maintain reliable production environments.
- Worked closely with product and design teams in an agile workflow to deliver production-ready features across web and mobile.

PROJECTS

Channel-IQ – AI Video Processing Platform | *Python · Django · React · AWS · LLMs · OpenCV · Firebase · S3*

- Built backend pipelines for noise reduction, resolution tuning, and automated batch video processing using AWS S3 and Firebase.
- Integrated LLMs for auto-captioning, subtitle refinement, and SEO-optimized metadata generation via RAG-based retrieval techniques.
- Automated short-form content creation (YouTube Shorts, Instagram Reels) from long-form video using scene segmentation, significantly reducing manual editing effort.
- Enabled secure OAuth-based video uploads and scheduled publishing via the YouTube Data API.

AI Call Center – Voice Booking Agent | *VAPI · LLMs · Python · JavaScript · REST APIs · Cloud Deployment*

- Architected an AI-powered inbound call center using VAPI voice agents to autonomously handle appointment booking, rescheduling, and cancellations.
- Integrated voice agents with backend REST APIs for real-time booking management and persistent data storage.
- Designed robust call flows, fallback logic, and error handling to maintain high call-completion rates in production.
- Eliminated a significant portion of manual call handling for client businesses by fully automating repetitive customer interactions.

Inventory Management System – Contract | *React · NestJS · PostgreSQL · REST APIs*

- Designed and built a full-stack inventory management system covering stock tracking, supplier management, and order workflows for a client.
- Architected a scalable NestJS backend with PostgreSQL, implementing relational data models, role-based access control, and audit logging.
- Built a responsive React dashboard with real-time stock indicators, low-stock alerts, and exportable inventory reports.
- Managed the full delivery lifecycle: requirements gathering, schema design, API development, frontend integration, and client handoff.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C#, HTML5, CSS3

Frontend and Mobile: React, Next.js, Flutter, React Native

Backend and AI: Django, NestJS, REST API Development, LLM Integration, NLP, RAG, VAPI, Pandas, NumPy, Scikit-learn

Cloud and DevOps: AWS, Docker, CI/CD, Firebase, S3, MongoDB, PostgreSQL

Tools and Integrations: Git, OAuth, YouTube API, Jupyter Notebook, Google Colab

EDUCATION

Bachelor of Software Engineering – NED University (UIT)

2021 – 2025