

# Abdullah Anzar

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## PROFESSIONAL SUMMARY

Product Engineer building AI-powered hiring platforms, real-time video infrastructure, and mobile IoT systems. Led end-to-end delivery of 6+ production systems at Qualimatrix with a team of 4, shipping across conversational AI, cloud infrastructure (AWS Fargate, Docker), and cross-platform mobile.

## WORK EXPERIENCE

**QUALIMATRIX** | PRODUCT ENGINEER Bangalore, India | Dec 2023 – Present  
**STAFFJET.AI / MENAJOB** – AI-POWERED HIRING PLATFORM  NODE.JS, TYPESCRIPT, MONGODB,  
REDIS, BULLMQ, DEEPGRAM, OPENAI/GEMINI, TENSORFLOW.JS, AWS

- Owned end-to-end delivery of an AI hiring platform serving Indian/international (StaffJet) and Saudi (MenaJobs) markets with full Arabic language support including STT and TTS.
- Built real-time AI interview engine with Deepgram speech-to-text, ElevenLabs TTS, and face-based fraud monitoring using TensorFlow.js + Face-API with configurable mismatch thresholds.
- Designed BullMQ worker pipelines for async processing of video screenings, AI interview evaluations, resume parsing, and email delivery across isolated Docker containers.
- Implemented vector-embedding candidate-job matching using OpenAI embeddings (1536-dim) with automated weekly digest generation for reverse matching.
- Building ManaraEngine – a shared Go/gRPC interview backend to unify both platforms under a single high-performance service.

**MEETBOT – AUTONOMOUS INTERVIEW EVALUATION BOT**  PLAYWRIGHT, AWS FARGATE/ECR,  
FFMPEG, PULSEAUDIO, GEMINI 2.5 PRO, TERRAFORM, S3

- Built an autonomous bot deployed on AWS Fargate that joins Google Meet and Microsoft Teams interviews via Playwright, captures live captions, and records audio/video using FFmpeg with a virtual display (Xvfb) and audio sink (PulseAudio).
- Implemented AI-powered interview evaluation using Gemini 2.5 Pro that scores both interviewer question quality and candidate responses with structured grading (correctness, depth, job-fit, seniority estimation).
- Provisioned infrastructure with Terraform – ECS task definitions, ECR registry, S3 with 90-day auto-expiry for recordings, and CloudWatch logging.

**ALTRICITY – ANDROID / IOS BLE APPLICATION**  FLUTTER, DART, BLE, OTA, ANDROID, IOS

- Built the core BLE communication layer for a car battery management system enabling on-demand jumpstart via direct mobile-to-hardware integration.
- Implemented real-time battery voltage monitoring (vehicle + jumpstart), reducing customer support cases by **40%**.
- Built OTA firmware update pipelines (mcumgr) across hardware versions with **90%+** success rates.

## PERSONAL PROJECTS

**AETHER – AI INTERVIEW PRACTICE AGENT**  Go, DEEPGRAM, OPENAI, GORILLA WEBSOCKET, SQLITE  
Real-time conversational AI agent with speech-to-text, WebSocket streaming, and structured interview feedback. Go backend with SQLite (WAL mode) and JWT auth.

**PLATANIST NEST – ZERO-KNOWLEDGE ENCRYPTED VAULT**  NEXT.JS, TYPESCRIPT, MONGODB,  
CLIENT-SIDE ENCRYPTION

End-to-end encrypted vault where the server stores only ciphertext and metadata. Client-side key generation and decryption with open-source verifiable architecture.

**TS-NATIVE – TYPESCRIPT-TO-NATIVE COMPILER**  RUST, LLVM

*In Development* – Compiler targeting native code from TypeScript syntax. Architecture: Parser → Type Checker → TS-Native IR → LLVM codegen. Currently defining formal language specification.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript (ES6+), Dart, Golang, Rust (learning), Python

**Frontend:** Next.js, React, Tailwind CSS, Flutter

**Backend & Infra:** Node.js, Express.js, MongoDB, Redis, BullMQ, gRPC, Docker, Playwright, FFmpeg

**Cloud & DevOps:** AWS (Fargate, ECR, S3, Lambda), GCP, Terraform, Firebase, Git, GitHub Actions

**AI/ML:** OpenAI, Gemini, Deepgram, ElevenLabs, TensorFlow.js, Face-API.js

## EDUCATION

**Vellore Institute of Technology**

MASTER OF COMPUTER APPLICATIONS

Chennai, India | 2024 – Present