

# Abhijeet Kadam

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## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Java

**Frameworks & Libraries:** Node.js, Express.js, Hono, Next.js, React, Tailwind CSS, Prisma, BullMQ

**Databases:** PostgreSQL, MongoDB, Redis, Supabase

**AI & Voice:** OpenAI, Google Gemini (Live API), Deepgram (STT/TTS)

**Infrastructure & DevOps:** Docker, GitHub Actions, Azure Container Apps

**Cloud & Integrations:** Azure Communication Services, Microsoft Graph API, Microsoft Business Central, GitHub API

## EXPERIENCE

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**AEOS Labs** | *Full Stack AI Engineer*

Sept 2025 – Present

- Engineered and shipped the full-stack platform for Industrial Motion, a US-based MRO solutions company specialising in industrial parts procurement and supply chain optimisation — delivering both the backend infrastructure and a Next.js frontend with TanStack Query, implementing UI designs from the UX designer across marketplace, RFQ, and vendor management workflows.
- Reduced RFQ quote turnaround from 48+ hours to minutes by building an AI-powered automation pipeline (OpenAI + Google Generative AI) for end-to-end quote generation in a B2B industrial parts marketplace.
- Architected a TypeScript monorepo (npm workspaces) with two independently deployable microservices — Auth (Hono/Node.js) and Sync (Express/BullMQ) — deployed as isolated Azure Container Apps with independent scaling policies.
- Engineered async job queue architecture with BullMQ + Redis and KEDA auto-scaling across multiple concurrent workers, handling RFQ processing, vendor sourcing, purchase quote sync, email ingestion, and Microsoft Graph subscription renewal.
- Integrated Microsoft Business Central (OData API) for bidirectional sync of vendors, items, purchase quotes, and conversations; set up Microsoft Graph webhooks to auto-parse inbound email-based RFQs via NLP pipeline.

## PROJECTS

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**ARIA — AI Voice Receptionist** | *TypeScript, Hono, Twilio, Gemini Live, Deepgram, Supabase, Upstash Redis*

- Achieved sub-800ms end-to-end latency via a native audio-to-audio pipeline (Gemini Live API), eliminating STT/TTS round-trips; implemented a fallback sequential pipeline (Deepgram Nova-2 → Gemini 2.5 Flash → Deepgram Aura) toggled via server config.
- Engineered full audio resampling chain: Twilio 8kHz  $\mu$ -law → 16kHz PCM (Gemini ingress) → 24kHz PCM (Gemini egress) → 8kHz  $\mu$ -law (Twilio playback), chunked into 160-byte/20ms frames.
- Integrated local Silero VAD for sub-millisecond barge-in detection, firing a Twilio `clear` command and `turnComplete` signal to Gemini simultaneously to cut off mid-response speech instantly.
- Built a conversation state machine (GREETING → COLLECTING\_INFO → CONFIRMING → BOOKED/FAILED) with Gemini tool calling for `check_availability()`, `book_appointment()`, and `send_confirmation_sms()`; persisted call logs to Supabase with session state in Upstash Redis (1hr TTL).

**BugBot — Autonomous AI PR Review Agent** | *TypeScript, Hono, BullMQ, Redis, OpenAI, PostgreSQL, GitHub API*

- Reduced unnecessary LLM calls by ~60% via a 3-stage pipeline per diff chunk: (1) summarise changes, (2) identify bugs/security issues as structured JSON (OpenAI `json_schema`), (3) generate GitHub suggestion blocks for critical issues only.
- Built webhook receiver with HMAC-SHA256 validation (`crypto.timingSafeEqual`) and BullMQ job queue, returning 202 Accepted to GitHub within milliseconds while processing asynchronously.
- Solved GitHub 422 `line-not-in-diff` errors with a line-snapping algorithm mapping AI-returned line numbers to the nearest valid diff hunk — zero failed review posts in testing.
- Authenticated dynamically as a GitHub App installation (scoped per-repo tokens via `@octokit/app`), enabling multi-repo deployment without credential rotation; implemented comment deduplication on force-pushed PRs via delta filtering.

## EDUCATION

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**Vishwakarma Institute of Information Technology**

*BTech in Electronics and Telecommunications* | CGPA: 8.93 / 10

Aug. 2021 – May 2025