

Hilmi Hanif Sobandi

Full-Stack Developer · TypeScript · Next.js · PostgreSQL · Python

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PROFILE

Full-stack developer who builds **and runs** production systems — database schema, application, CI/CD (GitHub Actions, Azure Pipelines) and the Docker/Caddy VPS it deploys to. Since June 2026 I have been the sole developer at an Islamic education foundation, shipping five web applications in daily use; the largest was signed into by **470+ teachers, class leaders and coordinators in its first five weeks** and tracks **3,800+ participants across 400 study circles**. Used to working asynchronously: decisions, runbooks and handovers are written down, deploys are automated. Indonesian (native), English (fluent), Arabic (diploma, GPA 3.90).

EXPERIENCE

Full-Stack Developer & Programme Coordinator

Jun 2026 — Present

Muhajir Project — Islamic education foundation, Jakarta

- ❑ **Built the teacher-competency and attendance platform** (Next.js, PostgreSQL) used by 8 roles: 470+ distinct users and 1,600+ sessions in its first five weeks; 1,100+ WhatsApp reminders sent from the app.
- ❑ **Replaced spreadsheet administration for 10+ programmes** with a dashboard that syncs a third-party CMS every 15 minutes and turns gaps into a daily action list for coordinators, each item with a pre-written WhatsApp message. Generates official PDF letters. Covered by **1,200 automated tests**.
- ❑ **Migrated the platform from Supabase to self-hosted PostgreSQL without editing ~568 call sites** — wrote a compatibility layer over node-postgres that kept the old query-builder API and threw on anything unsupported instead of failing silently.
- ❑ **Rebuilt WhatsApp automation from n8n into tested Python** after three silent production failures: send/no-send decisions moved into deterministic, unit-tested code; the LLM only matches questions to known FAQ entries.
- ❑ **Built an ML recitation-assessment pipeline** around a pretrained Wav2Vec2-BERT CTC model: CTC forced alignment for per-letter pronunciation scores and a triage classifier reaching **AUC 0.88** on 2,837 recordings (58% decided automatically at 90% precision); runs as a Spot T4 batch job at ~\$0.20 per run, in shadow mode beside teachers' grading.
- ❑ **Shipped Arabic/English event registration** with signed QR e-tickets and camera gate scanning.

PUBLIC PROJECTS — LIVE DEMOS

Competency Platform production · sanitised copy	Multi-role auth from primitives, audio review, scoring matrices, 91 migrations. Next.js 14, PostgreSQL 17, node-postgres . tilawa-labs-maahir.vercel.app
Operations Dashboard production · sanitised copy	Scheduled CMS sync, read-after-write verification, PDF letters, 4K wall board. Next.js 16, React 19, Drizzle ORM, PostgreSQL, vitest . tilawa-labs-dashboard.vercel.app
Event Registration & Gate Scanning production · sanitised copy	Arabic-first RTL UI, signed QR tickets (jose), camera scanning (zxing). Next.js 16, TypeScript strict, Drizzle, Azure Pipelines . tilawa-labs-event.vercel.app
NasabNet personal · open source	Lineage graph of 5,769 people from classical Arabic texts; every edge checked against its source. Python, React, Cytoscape.js . nasabnet.vercel.app
Azka Company Tracker client project · family business	Storefront plus production tracker: QR job tickets scanned by phone, batch stages, photo proof at packing. Next.js 16, Drizzle, Neon Postgres, Vercel Blob . azka-company.vercel.app

TECHNICAL SKILLS

LANGUAGES	TypeScript (strict), Python, SQL, PHP, JavaScript, HTML/CSS
WEB	Next.js (App Router), React, Tailwind CSS, shadcn/ui, FastAPI, Laravel, REST APIs, Web Audio API
DATA	PostgreSQL, Drizzle ORM, node-postgres, Redis, SQLite, schema migrations
ML	PyTorch / TorchScript inference, Wav2Vec2 CTC, forced alignment, NumPy, logistic regression, AUC & precision calibration
INFRA & CI	Docker Compose, Caddy, Linux VPS, Vercel, Azure, GCP Storage, GitHub Actions, Azure Pipelines
PRACTICES	vitest, pytest, JWT/session auth, rate limiting, written ADRs and runbooks, AI-assisted development (Claude Code)

EDUCATION

- ❑ **BA, Islamic Studies** (GPA 3.57, 2022 — 2025) and **Diploma, Arabic Language & Literature** (GPA 3.90, 2019 — 2021) — Imam Mohammad Ibn Saud Islamic University (IMSIU), Jakarta
- ❑ **Full-Stack JavaScript Bootcamp** — Rubicamp · Node.js, Express, React, PostgreSQL, MongoDB · Jun — Aug 2022