

Numan Hayder

AI Engineer · Full-Stack Developer · Founder of UBITS Technologies

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PROFILE

Founder and product engineer who ships **AI agents, developer tools and full-stack products** end to end: architecture, code, deployment and operations. I run **Modu**, an AI operator live on Discord, Slack and WhatsApp, and publish open-source agent skills that work across **Claude Code, Codex, Cursor and Antigravity**. Comfortable from Win32 and Direct2D up to Cloudflare Workers and AWS.

39

Discord servers using Modu, 70 users

3

platforms Modu runs on: Discord, Slack, WhatsApp

15

public open-source repositories

10+

products and tools shipped in 2026

EXPERIENCE

Founder & Product Engineer · UBITS Technologies

ubits.tech · Present

- Lead technical direction, architecture and delivery for the company's **AI, automation and developer-tooling** products.
- Run production on **AWS EC2** with Postgres, systemd services and Cloudflare tunnels; moved the stack over from GCP in October 2026.
- Wrote the architecture report and **unit-economics model** for Modu: measured inference cost per action, pricing and the path to a profitable margin.

Co-founder, AI Product · Modu

modu.ubits.tech · Present

- Building an **AI community operator**: an admin asks in plain language, Modu plans the change, shows the risk of each step, waits for approval, applies it and keeps an undo.
- Launched the **Slack** and **WhatsApp** editions in October 2026 with automations, help-desk incidents, bookings, payment links and a shared inbox.
- Early traction: **39 Discord servers and 70 users**. Stack: Next.js, TypeScript, Postgres, Prisma, LLM agents.

SELECTED PROJECTS

confession.baby

LIVE

Anonymous, moderated confession platform for Pakistani campuses, with an Android app. Passwordless 6-word sign-in, photo review, Web Push written from the RFC.

Astro · Hono · Cloudflare Workers · D1 · R2 · Capacitor · 78 Playwright e2e tests

nummode

OPEN SOURCE

Skill router for coding agents: detects the mission in a long brief, ranks every installed skill, executes and verifies. Relays sub-tasks between five agent harnesses.

Python · Claude Code · Codex · Cursor · Antigravity · OpenCode

Lost Island

WINDOWS · LINUX

Dynamic island for the desktop: live activities, media controls, Claude Code status, focus timer. Native Windows port ships as one 1.4 MB .exe.

C++20 · Win32 · Direct2D · WinRT · Python · GTK4 · WayLand

Copycat

OPEN SOURCE

Agent skill that rebuilds a UI from a live page or screenshot, then pixel- and structure-diffs the result against the original, most important gaps first.

Node.js · Playwright · pixelmatch · 77 tests, 22 in a real browser

DevOps Agent

OPEN SOURCE

Agent skill with a Python CLI: inspects cloud identity and project type, plans and runs deploys, diagnoses CI failures, verifies DNS, TLS and HTTP health, plans rollbacks.

Python 3.11 · cloud CLIs · GitHub Actions · pytest · ruff

AI Usage

OPEN SOURCE

GNOME Shell extension and Windows widget showing Claude, Codex and Cursor limits from credentials already on disk; renews expired tokens in place.

JavaScript · GNOME Shell 46-50 · C++ · Win32

SKILLS

Languages

TypeScript

JavaScript

Python

C++20

SQL

Bash

AI & agents

LLM APIs

Agent skills

MCP servers

Tool use

Context engineering

Browser automation

Web & frontend

Next.js

React

Astro

Tailwind CSS

three.js / R3F

Backend & data

Node.js

Hono

Flask

Postgres

Prisma

SQLite / D1

REST

Cloud & DevOps

AWS EC2

Cloudflare Workers

R2

Vercel

GitHub Actions

systemd

Linux

Desktop & tooling

Win32

Direct2D

GTK4

Textual

Playwright

Capacitor

Git

ALSO BUILT

QuranFlow

Quran recitation in the background from the terminal or a coding agent. Python, mpv.

AyahPath

Quran Hackathon entry: verses for life situations, 7 languages, offline PWA, colour-blind modes. Flask.

PxForge

Turns a codebase into one Markdown file an LLM can read. Python, Textual; OpenAI, Anthropic, Groq, Ollama.

numan.fun

This site: a 3D desk room whose monitor runs a working Linux desktop. Next.js, React Three Fiber.

EDUCATION

The National College, Park View

First Year · in progress