

HASSAN

Full-Stack Developer · Web · Mobile · Desktop · Discord Bots

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SUMMARY

Full-stack developer building complete products end to end — from interactive frontends to secure backends, native desktop apps, and real-time Discord bots. Comfortable across web, mobile, and systems-level programming in Python, JavaScript, TypeScript, and Rust. I care about shipping software that is actually used, not just demoed: clean architecture, sensible data models, and enough attention to security and edge cases that the result holds up outside a tutorial. I learn new stacks quickly when a project calls for it and enjoy owning a feature from the first design decision through to deployment.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Rust
Frontend	React, Flutter, HTML5, CSS3, responsive & component-driven UI
Backend	Node.js, Express, Flask, REST API design, WebSockets / Socket.io
Databases	PostgreSQL, Prisma, MongoDB, relational & document data modeling
Desktop & Systems	Tauri (Rust + web frontend), cross-platform native apps
Discord Bot Development	discord.js v14, slash & prefix commands, Lavalink / Kazagumo audio, deferred interactions, bot architecture
Security	Argon2id password hashing, AES-256-GCM encryption, zero-knowledge data design
Tools & Practices	Git & GitHub, Vercel & Railway deployment, WebRTC, Stripe Connect, real-time systems

SELECTED PROJECTS

Last Peace of Art — Creative Platform

lastpeace.vercel.app

A creative platform where creators, developers, and artists can showcase their projects, write blog posts, share a public profile, and take part in community discussions. Designed as a shared space where people can create and connect, combining a project showcase, a blogging system, user profiles, and a discussion forum in one product.

Live & in active use

OtpVault — Desktop Security App

github.com/Shadow132245/OtpVault | otpvault1.vercel.app

A zero-knowledge two-factor authentication (2FA) app for Windows, built as a native desktop application with Tauri, Rust, React, and TypeScript. Vault data is encrypted on-device using Argon2id for key derivation and AES-256-GCM for encryption, with an optional encrypted cloud backup — the server only ever stores ciphertext and never has access to the underlying accounts.

Rust · Tauri · React · TypeScript · Live & in active use

Email V Tempo — Disposable Email Service

emailvtempo.vercel.app

A disposable temporary email service with customizable inbox lifespans, from 1 hour up to 7 days, and shareable inbox URLs. Requires no sign-up, with automatic cleanup once a mailbox expires.

Live & in active use

Luna Music — Discord Music Bot

[Discord bot](#) · [Node.js](#)

A full-featured Discord music bot supporting both prefix and slash commands, multi-source playback, and a rich interactive UI for controlling playback directly from Discord. Built on Lavalink and Kazagumo for stable, high-quality audio streaming, with MongoDB handling persistence for queues, playlists, and per-server settings.

[Node.js](#) · [discord.js v14](#) · [Lavalink](#) / [Kazagumo](#) · [MongoDB](#)

ADDITIONAL EXPERIENCE

- **Gen Z Academy** — contributing to a large-scale educational platform with live sessions, course uploads, notifications, and payments, built with a Flutter frontend on top of a real-time Node.js / Express backend with PostgreSQL, Socket.io, WebRTC, and Stripe Connect.
- **EnzoBot** — upgraded an existing Arabic-language Discord bot with modern slash commands and resolved deferred-interaction handling issues to improve reliability under load.
- **Video Downloader Platform** — built and deployed a full-stack video downloader supporting YouTube, Facebook, Instagram, TikTok, and X, with a Flask + yt-dlp backend and a custom frontend, including cookie-based authentication to work around provider IP blocks.

LANGUAGES SPOKEN

Arabic (native) · English (professional working proficiency)