

HOSSEIN JAFARI SHARAMI

UI/UX Designer & Full-Stack Developer

Tehran, Iran | hjafarisharami@gmail.com | (+98) 911 542 0406 | hjafarisharami.ir

SUMMARY

Computer science student and self-taught full-stack developer with hands-on experience across web infrastructure, UI/UX design, embedded systems, and AI-assisted automation. Comfortable working from an empty VPS to a deployed production site, and from a bare microcontroller to a working IoT device. Prefers understanding systems at a practical, working level rather than relying only on graphical tools.

EXPERIENCE & PROJECTS

DailyNews — News Management System — University Course Project 2025

- Built a full-stack, responsive news platform end-to-end: public news feed, article detail pages, and a complete admin panel with CRUD for articles, categories, and authors.
- Backend built with ASP.NET Core MVC (.NET) and Entity Framework Core (Code-First) over SQLite; frontend with Bootstrap 5 and custom CSS, including full RTL support.
- Resolved real-world issues: package/tooling version conflicts, LocalDB instability (migrated to SQLite), seed-data warnings from non-deterministic timestamps, and admin/site layout conflicts.

Klipper Firmware — 3D Printer Control System — Personal Project 2025

- Built a complete Klipper-based control system from scratch on a BIGTREETECH Manta M4P V2.2 mainboard with CB1 compute module, including Debian OS setup, static IP/Wi-Fi configuration, and Klipper/Moonraker/Fluidd deployment via KIAUH.
- Diagnosed and resolved MCU protocol mismatches, firmware version conflicts, duplicate GPIO pin assignments, out-of-range ADC sensor errors, and a corrupted microSD card.
- Configured full printer kinematics, TMC2240 stepper drivers in SPI mode, extruder, heated bed, and cooling systems directly in printer.cfg.

ESP32-CAM IoT System — Personal Project 2024 – 2025

- Designed a motion- and face-detection camera system on ESP32-CAM with an INMP441 I2S microphone, a lightweight self-hosted web interface, and Wi-Fi based file transfer.
- Worked within tight memory and power constraints — decoupled live streaming from local recording to avoid resource conflicts, and diagnosed brownout resets traced to an underrated power supply rather than firmware bugs.

Web Hosting & Infrastructure — Self-Directed Learning — Ongoing 2021 – Present

- Deployed and maintained websites from bare VPS instances: DNS (A/CNAME/MX/TXT records), SSL via Let's Encrypt, CyberPanel administration, and WordPress/CMS configuration.
- Configured outbound email authentication (SPF, DKIM, DMARC) and troubleshot mail deliverability issues.
- Migrated static sites to GitHub Pages behind Cloudflare for hosting reliability, caching, and simplified deployment via Git.

TECHNICAL SKILLS

Web & Backend: ASP.NET Core MVC, PHP, WordPress, MySQL, Entity Framework Core, SQLite, REST-style APIs

Frontend & Design: HTML5, CSS3, JavaScript, Bootstrap 5, responsive/mobile-first design, Figma, Adobe Illustrator, RTL/LTR layouts

Infrastructure: DNS, SSL/Let's Encrypt, CyberPanel, Linux (Debian/Armbian), Cloudflare, GitHub Pages, SPF/DKIM/DMARC

AI & Automation: Prompt engineering, Whisper transcription, LLM-driven content pipelines, FFmpeg automation

Embedded / IoT: ESP32-CAM, Klipper firmware, GPIO/ADC/SPI debugging, I2S audio, Raspberry Pi

EDUCATION

Computer Science — [SRU] Enrolled 2021 (1400)