

Karam Assany

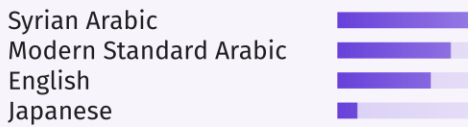
Software Developer

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- 📅 June 20, 2001
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About me

I'm a self-taught programmer driven by deep curiosity. To me, programming is more than writing glue code — it's a mindful art. Correctness is my top priority.

Natural languages



Formal languages



Technical skills

Web Development

- HTML5
- CSS3
- Javascript (ES6+)
- htmx
- django
- DRF
- Vue
- Flask

System administration

- Debian/Ubuntu
- systemd
- runit
- Podman
- Docker
- NGINX
- SSH
- PostgreSQL
- LLVM
- qemu

Security

- UNIX DAC
- UNIX ACLs
- AppArmor
- nftables
- LUKS
- bubblewrap

Tools

- git
- just
- uv
- ty
- ruff
- mypy
- pyright
- pytest
- neovim

Career

Full-stack Web Developer at Smart Staffing Support

2026 — Current

Desktop CRUD Application Developer

2026

I developed a native GUI application for Microsoft® Windows™ specialized for doctors to store patients' information. I used Free Pascal and Lazarus as the RAD environment with SQLite as the database.

Web Scraper Developer

2023 — Current

I develop robust, fast and correct web scrapers in Python.

- 🔍 Code is entirely type-hinted (strict mode), with 100% test coverage.
- 📄 Using [beautifulsoup](#) and CSS selectors.
- 🚀 Backed by high-performance parsing libraries: [LXML](#) and [msgspec](#).
- 🔗 Using [asyncio](#) and [httpx](#) to achieve concurrency and HTTP/2 support.
- 🔄 Pure data processing is offloaded to a [multiprocessing](#) pool.
- 🗄 An [SQLite](#) database is used for persistence, atomicity and deduplication.

MediaWiki Administration at BeFirst Group

2025

Full installation, setup and about 6 months of administration.

Full-stack Web Developer at BeFirst Group

2024

I developed and deployed the [BeFirst Tender](#) website.

- 🔌 Powered by [django 5](#) and [Gunicorn](#).
- ⬆ Progressive enhancement: The website is completely usable without CSS and JS support.
- 📄 Semantic and accessibility-optimized HTML5 markup.
- 🎨 Clean and modern CSS3: variables, nested scopes and modules.
- 📱 Flexbox- and grid-based layout adaptable for all screens.
- 📱 PWA integration via ES modules and service workers.
- 🔔 Native push notification support via [WebPush](#).
- 🔗 Boosted navigation and search components via [htmx](#).
- 🗄 Server-side caching via [Memcached](#). Deterministic client-side caching via ETag.
- 🔒 Client-side security using [Content Security Policies](#).
- 🏆 [Google Lighthouse](#) scores reached 100% in production.

Side hustles

Typesetting

- 📄 Mainly using [LibreOffice Writer](#) or [LaTeX](#). Sometimes using [Typst](#), [Markdown](#) or [roff](#).
- 📄 Typing speed approaches 85 word-per-minute (English QWERTY).

English-to-Arabic translation

- 🗣 I contributed translations to many open-source projects and non-profit organizations.

Projects

2025 utme

Turing machine emulation in pure Python.

📄 Hosted at <https://codeberg.org/karam/utme>

2022 cewarib

(Not maintained since 2023)

An IPv6-enabled SOCKS5 server implementation in Python.

📄 Hosted at <https://codeberg.org/karam/cewarib>