

Ibrahim Hasaki

Software & DevOps Engineer • Syria

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PROFILE

Software engineer dual-enrolled in Computer Engineering and Information Technology. Build full-stack web applications, run production Linux infrastructure on a self-administered home lab, ship open-source Python tooling, and publish open research on regional internet infrastructure.

SKILLS

Languages	Python, TypeScript, JavaScript, PHP, Bash
Web	React, Node.js, Express, Laravel, Electron, HTML5/CSS3
Databases	PostgreSQL, SQLite
Infrastructure	Docker, Nginx, Linux (Ubuntu), systemd, WireGuard, Pi-hole
Tooling	Git, GitHub Actions, CI/CD, FastAPI, ETL pipelines

PROJECTS

Draw-to-Web — Desktop app converting drawings to clean HTML/CSS

🌐 [Draw-to-Web](#)

TypeScript • React • Electron • Konva • Zustand

- Converts canvas drawings into zero-JavaScript HTML5/CSS3 output with built-in axe-core accessibility enforcement
- Owned the Electron shell, IPC bridge, code-generation engine, SEO injector, export pipeline, and CI/CD on a three-person team

Home Lab Infrastructure — Production self-hosted Linux environment

Docker • Nginx • Ubuntu Server • systemd • WireGuard • Python

- Two-server setup (web/app server + LAN utility box) running Pi-hole, Samba, Gitea, rsyslog, and multiple Dockerised web services behind Nginx with automated SSL
- Built a Python/systemd nginx log watcher pushing real-time security alerts via ntfy, a remote ChatOps tool for ban, restart, and status, and conducted a full security audit (Docker FORWARD rules, AIDE file-integrity monitoring, centralised secrets)

Nujoom — Arabic children's educational platform with AI tutor

🌐 [nujoom-kids](#)

Node.js • Express • SQLite • Docker • Groq AI

- Built and deployed an Arabic-language learning platform with an integrated AI chatbot tutor, routing API calls through a Cloudflare Worker relay to bypass regional access restrictions

GA-Optimized Decision Trees — Interpretable ML with genetic algorithms

🌐 [ga-optimized-trees](#)

Python • scikit-learn • DEAP • NumPy

- Evolves decision trees using multi-objective genetic algorithms, optimising jointly for accuracy and interpretability
- Released as open source with documentation and benchmarks

Syrian Telecom Data Warehouse — Star-schema DW over two telecom OLTPs

🌐 [syrian-telecom-warehouse](#)

Python • PostgreSQL • ETL • Metabase

- Designed a star-schema data warehouse consolidating Syriatel and MTN Syria OLTP systems via Python ETL
- Delivered RFM customer segmentation and Holt-Winters forecasting with Metabase dashboards

OPEN SOURCE & PUBLICATIONS

pdfpeek

🌐 [pdfpeek](#)

Python package published to PyPI. PDF text extraction with confidence scoring, 10-stage pipeline, tiered install sizes, CLI, and Python API. `pip install pdfpeek`

SyNet — Passive multi-layer security assessment of Syria's internet infrastructure

Eleven-chapter research project covering 7 ASNs and ~1.25M IPv4 addresses across BGP, DNS, TLS, traffic, and exposed-services layers. Submitted as junior college research.

EDUCATION

Antioch Syrian Private University — Computer Engineering

Dec 2022 – Jan 2027 (expected)

Syrian Virtual University — Bachelor in Information Technology (BAIT), MIS track

Apr 2023 – Dec 2027 (expected)

Languages: Arabic (native) • English (working proficiency)