

SAAD SHAHID

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SUMMARY

Full-stack developer shipping production-deployed Flask apps with PostgreSQL/Docker and applied IR/ML (TF-IDF + ranking). Security-first auth flows, payments, and real deployments (Render/Gunicorn).

EDUCATION

Honours Bachelor of Information Technology — York University, Toronto, ON | 2022–2025

Coursework: Applied AI, Systems Analysis & Design, OOP, Applied Statistics, Systems Architecture

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C#, Java

Frameworks/Tools: Flask, Jinja2, Bootstrap 5.3, Node.js/Express, scikit-learn, Docker, PostgreSQL, Git, Gunicorn; React (in progress)

Concepts: Auth & account security, REST-style JSON APIs (GET/POST + HTTP status codes), TF-IDF, IR ranking, ML evaluation

PROJECTS

DarjahAI (Flask) | Feb 2026

- Re-engineered Phase 1 into Phase 2 with 5+ core modules (auth, tasks, progression, analytics, AI chat) and 5+ JSON endpoints
- Gamified productivity: tasks/subtasks + XP/levels/streaks/classes; analytics pipeline outputs TF-IDF top-term scores + run history
- Stripe subscription checkout + webhook gating; chat sessions + /chat/api with free daily vs premium monthly quota limits
- Migrated SQLite → managed PostgreSQL (Render Basic-256mb, 5 GB); Docker + Gunicorn deployment on paid tier (~100% reduction in cold-start delay vs free: 15-min idle spin-down can add 50+ sec)

Personal Website (saadshahid.net v2) | Jan 2026

- Built 6-route Flask + Jinja2 portfolio (Projects/Certifications/Courses/About/Contact) with reusable templates and static pipeline
- Secure contact workflow: server-side validation (WTForms), Google reCAPTCHA, SMTP email delivery (Flask-Mail), env config (python-dotenv)
- Deployed on Render Starter (0.5 vCPU / 512 MB) with Gunicorn + GitHub auto-deploy; custom domains + SSL; paid tier avoids 15-min idle spin-down (50+ sec cold start)

Information Retrieval Project (Python) | Mar–Apr 2025

- Built modular indexer/searcher for 20 topics; parses title/description/narrative and outputs ranked results in standard TREC format
- Implemented weighting/similarity methods (TF-IDF, BM25, cosine); supports top-k retrieval up to 1000 docs/topic

D-Track (Node.js/Express) | Nov–Dec 2024

- Full-stack food logging + recipe app with authentication and profile management; 7-page UI (Login/Register/Home/Profile/Recipe/More/Contact)
- Implemented calorie logging, recipe/photo upload, and food storage with backend routing/API and local DB persistence

Wine Quality Classification (scikit-learn) | May–Aug 2025

- Implemented Naive Bayes classifier on UCI Wine Quality datasets (red/white); generated classification reports and confusion matrices

GifMaker (Python) | Sep 2025

- Built GUI GIF maker (Tkinter + Pillow): multi-image selection, frame control, resizing/looping; supports 256-color palettes

CERTIFICATIONS

Google Cloud: AI Image Generator (Imagen), Modern Security Operations | Udemy: Android 14 & Kotlin

Codédx: The Legend of Python | ISSA: CPR & AED