

MD. SADMAN SAIF ZARIF

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EDUCATION

Islamic University of Technology (IUT) <i>B.Sc. in Computer Science and Technology</i>	Expected 2029
Notre Dame College <i>Higher Secondary Certificate (HSC) - Science</i>	GPA 5.00 / 5.00
St. Gregory's High School & College <i>Secondary School Certificate (SSC) - Science</i>	GPA 5.00 / 5.00

SKILLS

Languages: Python, C, JavaScript, HTML, CSS, React, Next.js
Tools: Git, VS Code
Technical Writing: Documentation, developer guides, structured workflow design

PROJECTS

- CareerPilot** | Team Project · IUTCS CodeSprint 2026 · Deployed
Tech: Next.js, FastAPI, Supabase, Pinecone, Groq (Llama 3.3 70B), Clerk Auth
- Built an AI-powered job platform where users upload a CV to get real-time fit scores against live job listings fetched from JSearch and Adzuna APIs.
 - Implemented a RAG-based career coach grounded in the user's CV, goals, and application history using vector similarity search via Pinecone.
 - Developed a full application tracker with Kanban board, calendar view, streak tracking, and AI-generated career roadmaps.
- ContextForge** | Team Project · Hackathon · Deployed
Tech: FastAPI, React, Neo4j, PostgreSQL, Redis, D3.js, Groq, SciSpaCy, Docker
- Built a research intelligence platform that ingests papers from arXiv, Semantic Scholar, GitHub, and NewsAPI and constructs a typed knowledge graph.
 - Designed a 4-agent pipeline (Ingestion → Extraction → Synthesis → Gap Finding) using SciSpaCy NER and LLM-powered relationship classification.
 - Surfaced 12 semantic edge types and automated research gap detection across contradictions, stale claims, and low-density areas in the literature.
- Ayatika** | Course Project · Structured Programming · Team of 3
Tech: C, RayLib 5.x, SQLite3, libcurl, cJSON, FriBidi
- Developed a full-featured desktop Quran study application in pure C with navigation across all 114 Surahs and 6,236 Ayahs.
 - Implemented Arabic RTL text rendering, fuzzy search, recitation audio playback, real-time prayer times, bookmarks with tags and notes, and multiple themes.
 - Integrated live data from AlQuran.cloud API and local SQLite storage for persistent user data.
- Notes Porbo** | Personal Project · Deployed · ★4 GitHub Stars
Tech: HTML, CSS, JavaScript, GitHub Actions, GitHub Pages
- Built and deployed an all-in-one study dashboard for IUT CSE batch, organizing course materials by semester with a clean browsable interface.
 - Automated Google Drive content crawling via daily GitHub Actions workflow, serving results as static JSON — no API keys exposed to the browser.

OPEN SOURCE & TECHNICAL WRITING

- Translucent-Win11** — ★ 91 GitHub Stars
- Authored a comprehensive step-by-step guide for achieving a translucent Windows 11 aesthetic, covering browser mods, torrent client theming, and status bar configuration.
 - Actively maintained with versioned releases; attracted 91 stars and community contributions from Windows customization enthusiasts worldwide.
- Agentic Development Workflow** — ★ 5 GitHub Stars
- Documented a prompt-driven, phase-locked workflow for AI-assisted hackathon and software development: spec, plan, code, review, repeat.