

George Nasseem

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EDUCATION

New York University Abu Dhabi

Abu Dhabi, UAE

B.Sc. Computer Science and Mathematics, Minor in Artificial Intelligence | GPA: 3.82/4.00 Aug. 2025 – May 2029

- **Coursework:** Data Structures, Linear Algebra, Multivariable Calculus, Probability and Statistics, Data Analysis

INDUSTRY EXPERIENCE

AI Engineering Intern

June 2026 – Aug. 2026

Nadeera Technologies

Abu Dhabi, UAE

- Built the agent behind Meridian, an HR policy assistant: it chains tool calls (document search, SQL lookups, a calculator) in a hand-written OpenRouter loop and tailors answers to the employee asking.
- Tagged each answer sentence with its source, added a verifier that removes sentences it cannot trace, and resolved conflicting policies by effective date instead of silently picking one.
- Built the scorer for a 60-question eval that needs no LLM judge (79% groundedness, 86% refusal accuracy, 0.72 tool-selection F1) and backed the system with 450+ unit tests.

Database Intern

Apr. 2026 – May 2026

e83

Abu Dhabi, UAE

- Built a proof-of-concept AI tool that tests proposed database changes and explains failures before deployment.
- Worked with DBAs on Oracle, PostgreSQL, and ERP: reviewed schemas, tuned queries, helped run migrations.

RESEARCH EXPERIENCE

SMART Lab, NYU Abu Dhabi (PI: Prof. Hanan Salam)

Abu Dhabi, UAE

Undergraduate Researcher

Sept. 2026 – Present

- Building an analogy pipeline on the SCAR benchmark that extracts and aligns relational graphs across two domains; a local Qwen2.5-7B checks each match and a policy states it, flags it as misleading, or drops it.
- Traced a failed 80-item dev run (38 empty lessons, no verifier verdict for 60% of candidate matches) to four causes; wrote batched, schema-constrained verifier calls, two policy fixes, and a revised extraction prompt.

Research Assistant

Feb. 2026 – May 2026

- Built RuneMail, an email client that sorts, summarizes, and drafts replies with on-device Qwen2.5-3B (WebLLM).

PROJECTS

nyuad.life | *TypeScript, React, Supabase, Voyage AI*

[Website](#)

- Built a Q&A site for NYUAD students that answers from 13,000+ student forum threads, official university pages, and the class schedule, with hybrid keyword + vector search, cross-encoder reranking, and cited answers.
- Kept it free to run with a fallback chain across seven model providers plus answer caching; added a schedule builder that turns requests like “Fridays off, nothing before 10” into clash-free timetables, ranked by professor ratings.

Sprout | *Python, PyTorch, ONNX*

[GitHub](#) | [Demo](#)

- Wrote a 29M-parameter Llama-style model (RoPE, RMSNorm, SwiGLU, KV cache) and a byte-level BPE tokenizer from scratch; pretrained on 1.57B tokens to 0.391 bits per byte on held-out data.
- Ran single-seed ablations (learned positions 1.36% worse than RoPE), instruction-tuned on 2.36M conversations (replies ending on their own: 0/20 to 19/20), and shipped an in-browser ONNX demo.

Irnit | *TypeScript, Next.js, Supabase, pgvector*

[Website](#)

- Built a learning platform where an LLM turns a goal into a curriculum, with SM-2 spaced repetition and RAG.

SKILLS & ACTIVITIES

Programming Python, TypeScript/JavaScript, SQL

AI & ML PyTorch, Hugging Face, ONNX Runtime, vLLM, WebLLM, RAG, tool-calling agents, LLM evals

Tools React, Next.js, Node.js, Supabase, PostgreSQL, pgvector, SQLite, Oracle DB, Vercel, W&B, Git

Soft Skills Public speaking and debate, technical writing, teamwork across engineering and research teams

Leadership NYUAD Student Government, First Year Class Experience committee; Scouts (7 years)

Activities Change the World MUN, New York (General Assembly, Best Delegate nominee); NYUAD volleyball

Languages English, Arabic