

# Yassin Ahmed

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## Education

**Zewail City University of Science and Technology**

September 2023 – Present

BSc in Communications and Information Engineering

- **CGPA:** 3.94 / 4.0
- **Full Merit Scholarship:** ISF Gifted Student Scholarship.

**High School - International Baccalaureate. Score: 42/45**

... – May 2023

## Experience

**The Egyptian Credit Bureau: “I-Score”**

Onsite

Database Administrator Intern

July of 2025 - August of 2025

- Configured a Disaster Recovery (DR) site with Oracle DataGuard. Simulated real-world scenarios - E.g. corrupted archive logs.
- Performed logical and physical backups using Data Pump and RMAN (full/incremental).
- Designed a database, generated data for it, and pipelined the data into Microsoft Power BI.
- Created audit policies in order to view who did what to our database.

**Google Summer of Code at Julia**

Remote

Software Engineer

May of 2024 - September of 2024

- Developed a symbolic solver capable of solving multivariate polynomial systems and integrated it into the Symbolics.jl library (1.4k stars on github).
- Used and tested by a wide range of researchers and academics in universities across the globe ([example](#)).
- As functional as solvers of famous libraries/tools like sympy (for python) and wolfram Mathematica.

## Certifications

**AWS Solutions Architect Associate**

October 2025, [certificate](#)

## Projects

**Database design and implementation for a clinic web app**

[github repo](#), [demo](#)

- Tools Used: MSSQL, ASP.NET, Razor pages, HTML & Bootstrap CSS.
- Designed the ER Diagram of our database, then translated that into a schema, optimized up to 3NF, then developed it using MSSQL and built a web application on top of it.

**Spectral analysis of an interfered song sample and Filter design**

[github repo](#)

- Used Matlab to take a 3 second sample of a song, interfere it with an arbitrary sinusoid of high amplitude, and performed spectral analysis on it. Discussed the effect of several parameters on the pwelch.

## Other Activities

**Featured as a guest in the Julia dispatch podcast**

[Spotify Link](#)

- The hosts of this show are [PhD Christopher Rackauckus](#) and [PhD Michael Tiemann](#).

## Technical Skills

**Tools:** AWS, Oracle DB, Microsoft SQL Server, Docker, Pandas, Numpy.

**Languages:** Python, SQL, C++, C#, Matlab, Julia.