

# Yassin Ahmed

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## Education

**Zewail City University of Science and Technology**

September 2023 – Present

BSc in Communications and Information Engineering

- **CGPA:** 3.92 / 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).
- 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 and nonlinear systems respectively.
- The multivariate polynomial solver uses Groebner basis. The nonlinear system solver was inspired by the [PRESS](#) [🔗](#) system. These solvers were integrated into the [Symbolics.jl](#) [🔗](#) library (1.5k 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

**Cloud-based personal website**

[github repo](#) [🔗](#), [project writeup](#) [🔗](#)

- Designed and developed a fully cloud-based serverless website with the AWS services: S3, Cloudfront, Lambda, DynamoDB, and API Gateway.
- Implemented everything in Infrastructure as Code (IaC): both Terraform and AWS CloudFormation.
- Implemented backend and frontend CI/CD pipelines on GitHub actions in order to unit test the Lambda functions before deployment, and update the website when needed.

**PCM modulation in Matlab**

[github repo](#) [🔗](#)

- Designed and developed a Pulse Code Modulation (PCM) system from scratch in Matlab (also including demodulation). Explained the mathematics used for this system in the project's writeup.

**Investigating Diagonally Implicit Runge-Kutta Methods**

[pdf](#) [🔗](#)

## 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.