

# Yassin Ahmed

📍 Cairo, Egypt 📩 eng.yassin.elbedwihiy@gmail.com 💬 LinkedIn 🌐 Github 📞 +201009422688 🌐 yassln.com

## Education

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### Zewail City University of Science and Technology

BSc in Communications and Information Engineering

September 2023 – Present

- CGPA: 3.92 / 4.0
- Full Merit Scholarship: ISF Gifted Student Scholarship.

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

... – May 2023

## Experience

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

Database Administrator Intern

Onsite

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

Software Engineer

Remote

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

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### AWS Solutions Architect Associate

October 2025, certificate ↗

## Projects

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### 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

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### 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

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

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