# Z Shaukat Aziz

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## SUMMARY

Four-Year Bachelor of Science (Research) in Physics graduate from the Indian Institute of Science (IISc Bengaluru) with strong competencies in algorithms, numerical modeling, and quantum computation. Recipient of the CBSE Certificate of Merit (top 0.1% nationwide in Computer Science with 100/100). Proficient in Python, C, and MATLAB with hands-on experience simulating analytical systems and exploring scientific computing frameworks. Seeking an internship at IBM India to apply rigorous quantitative thinking, programming acumen, and structured problem-solving to high-impact technical initiatives.

## EDUCATION

**Indian Institute of Science (IISc)** — **Bengaluru, India**
*Bachelor of Science (Research) in Physics* — 2022 – 2026

- **Academic Standing:** Completed Four-Year research degree program (awarded June 2026; CGPA: 6.5).
- **Advanced Core Coursework:** Algorithms and Programming (Theory & Lab), Computational Physics, Introduction to Quantum Computation, Introduction to Quantum Communications and Cryptography, Quantum Field Theory on a Quantum Computer, Mathematical Methods of Physics, and Analysis & Linear Algebra.

**Velammal Vidyalaya, Mel Ayanambakkam** — **Chennai, India**
*Higher Secondary (Class XII), CBSE Board — Science Stream* — 2020 – 2022

- **Academic Distinction:** Scored 100/100 in Computer Science; awarded the **CBSE Certificate of Merit** for placing among the top 0.1% of successful candidates nationwide.
- **Subject Scores:** Computer Science (100), Chemistry (99), Physics (95), Mathematics (95), English Core (93).

**Alpha Wisdom Vidyashram, K.K. Nagar** — **Trichy, India**
*Secondary School Examination (Class X), CBSE Board* — 2018 – 2020

- **Performance:** Mathematics Standard (98), Hindi Course-B (99), English (97), Science (93), Social Science (95); Information Technology (97/100) with NSQF Level-2 certification.

## TECHNICAL FOCUS & ACADEMIC WORK

- **Algorithms & Computational Physics:** Implemented numeric solvers, data modeling scripts, and computational physics algorithms using Python, C, and MATLAB during coursework and laboratory sessions at IISc.
- **Quantum Information & Emerging Technologies:** Gained foundational theoretical and algorithmic knowledge across quantum logic, state transformations, quantum cryptography protocols, and quantum simulation paradigms.
- **Open-Source & Scientific Tooling:** Actively explore, benchmark, and contribute to open-source developer tools and scientific computing libraries.

## TECHNICAL SKILLS

**Programming & Computation:** Python, C, MATLAB, Numerical Simulation, Algorithm Design

**Tools & Environments:** Git, GitHub, Linux/Bash, Microsoft Office Suite (Word, Excel, PowerPoint), LibreOffice

**Languages & Communication:** English (Fluent, 40+ WPM typing), Hindi (Fluent), Tamil (Fluent)

## LEADERSHIP & EXTRA-CURRICULAR ACTIVITIES

- **Team Convenor, IISc Kho-Kho Team:** Supervised practice logistics, coordinated intramural tournament participation, and managed the official team YouTube channel (`@iisckhokho`).
- **Community Outreach:** Regular volunteer for the SFRI outreach program and social notebook distribution drives at IISc Bengaluru.
- **Athletics:** Active intramural player in football and competitive foosball.