

Sandra Michelle

01285715102 | sandra.saleh.119@gmail.com | <https://www.linkedin.com/in/sandra-michelle/> | github.com/SandraMichelle5

SUMMARY

Competitive programmer and software engineering student with strong expertise in algorithms, data structures, and backend development with experience mentoring students in problem solving, code optimization, and algorithmic thinking. Skilled in C++, C#, and Python with a strong ability to analyze, explain, and review complex coding solutions.

TECHNICAL SKILLS

Languages: C++, Python, C#, SQL (T-SQL)

Frameworks & Tools: .NET, Entity Framework Core, LINQ, Git, GitHub, Visual Studio

Technical Expertise: Data Structures & Algorithms, Problem Solving, Competitive Programming, OOP, SOLID Principles, DBMS, Operating Systems, Code Review, Remote Work

EXPERIENCE

Programming Mentor

09/2024 – Present

ICPC Sohag Community

Sohag, Egypt

- Coached 60+ trainees in **C++** and **Data Structures & Algorithms**, strengthening their problem-solving skills.
- Reviewed code submissions to ensure quality and adherence to best practices, supporting AI-related coding challenges.
- Led up-solve sessions explaining algorithms, **time & space complexity**, and optimization strategies.
- Strengthened communication, leadership, and technical mentoring skills.

Member of Team Scholarships

01/2025 – Present

ScholarX

Remote

- Worked closely with leadership to support scholarship programs, coordinate student outreach initiatives, and enhance student engagement within the organization.

ACHIEVEMENTS

- Problem Solving:** Solved **3000+** problems on Codeforces (**Specialist**), LeetCode, AtCoder, and VJudge.
- NUCPA 2026 Finalist:** Secured **48th Place** out of nationwide competitors in the on-site final stage of Nile University Competitive Programming Assessment.
- ECPC 2025 Regional Finalist:** Ranked **Top 5** in university qualifications.
- ACPC Girls 2025:** Ranked **11th place** among participants.
- ECPC 2024:** Ranked **Top 10** in university qualifications.
- Collaboration:** Collaborated with diverse teams, providing clear written and verbal explanations of complex algorithms.

PROJECTS

Personal Finance Tracker | C++

- Designed and developed a modular financial management system using **OOP and SOLID** principles.
- Implemented features for tracking income, expenses, and budgets with category-based reporting.
- Added real-time budget alerts and date-range analytics to improve usability.

Banking System | C++

- Built a scalable banking system simulating account management, transactions, and card services.
- Applied **OOP and SOLID** principles for a maintainable and extensible architecture.
- Used STL and efficient memory handling to manage dynamic data structures.

EDUCATION

Bachelor's degree in Computer Science and Artificial Intelligence

09/2023 – 06/2027

Cumulative Grade: Very Good