Amjad Adi

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Education

Birzeit University *West Bank, Palestine*
Bachelor's in Computer Engineering *Expected September 2027*

- **GPA: 94.8 / 100**
- **Honors:** Consistently ranked among the top IT students for 6 consecutive semesters.

Experience

Competitive Programming & Technical Contests *West Bank, Palestine*
Problem Solving *June 2024 – Present*

- Solved **400+ problems** on Codeforces and LeetCode using **Data Structures** and **Algorithms** to optimize time and space complexity.
- Achieved **4th and 3rd Place** in two consecutive IEEE Head-to-Head competitions at Birzeit University, solving advanced logic problems under high-pressure constraints.
- Earned **4th Place** in the CES Club Team Competition, collaborating in a team of three to develop solutions for complex technical problems.

Projects

Real-World Bookstore System | *Java, MySQL, JavaFX, Maven, AES, OOP* *January 2026*

- Engineered a full-stack application with a dual-role architecture and interactive dashboard. Integrated a **MySQL** backend and implemented a custom **AES cryptography** algorithm to secure user passwords against database breaches.

AI Arabic Sentiment Model | *Python, Pandas, NLTK, Scikit-learn, MARBERT, TF-IDF* *January 2026*

- Developed an Arabic tweet classifier utilizing Naive Bayes, Random Forest, and Neural Networks with **TF-IDF** and **MARBERT** feature extraction, achieving high F1 and accuracy scores.

Multiplayer Game Server | *Java, Socket Programming* *August 2025*

- Created a multi-threaded, low-latency server using Java Socket Programming to synchronize real-time question and answer states while handling concurrent user interactions in a networked environment.

Sudoku Generator & Solver | *Python, CSP, Simulated Annealing, OOP* *December 2025*

- Designed a Python-based engine using **Constraint Satisfaction Problems (CSP)** and **Simulated Annealing** to generate and solve complex puzzles with optimized computation time.

Data Structures & Algorithms Applications | *C* *February 2025 – June 2025*

- Implemented specialized algorithms in **C** to solve real-world problems, including task management systems and optimal route planning between Palestinian cities using **Prim's** and **Kruskal's** algorithms.

Hospital Management System Simulation | *Java, OOP* *January 2025*

- Designed a comprehensive Java-based simulation of a hospital management system that models patient records, billing, departmental structure, and staff salary computations using object-oriented programming principles.

Online Course Log Analyzer | *Linux, Shell* *July 2025*

- Developed a menu-based **Shell script** to parse and analyze Zoom/Teams logs. Implemented logic to track student engagement, lateness, and absences by analyzing a log of course registration records.

OS Scheduler Simulation | *Java, Maven, JavaFX, Operating Systems, OOP* *January 2026*

- Simulated CPU scheduling logic by implementing **Round Robin** and **Primitive Priority** algorithms in Java to analyze performance metrics like average waiting time while detecting and handling deadlock states.

Technical Skills

Programming Languages: Java, Python, C/C++
Frameworks/Libraries: JavaFX, Pandas, NLTK, Scikit-learn, MARBERT
Databases: MySQL, PostgreSQL
Tools: Maven, Git, Linux