Mahmoud Ashraf El Yamany

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Education

Nile University, *NU*	**Oct 2023 – Jun 2027**

- Major: BSc. in Computer Engineering   GPA: 3.87 / 4

Coursework: Computer and Information skills (Basics of Computers), Fundamentals of Programming (Basics of C++, OOP), Data Structures & Algorithms, Database Management Systems, Linear Algebra.

Technical Skills

Languages: C, C++, HTML, CSS, Python, JavaScript

Tools: Qt, Git & GitHub, React JS, Node.JS, MySQL.

Experience

Nile University	**Feb 2024 – May 2025**

Junior Teaching Assistant – Fundamentals Of Programming Using C++:

- Attended 5 weekly Laboratories to help 25+ students per section.
- Simulated each week lab and solve similar problems in recorded video.

Projects

FunZy – A Full Stack mini games platform	**Jan 2025 – June 2025**

- **Developed a full-stack mini games platform** using Node.js, Express, MySQL, and bcrypt, supporting real-time score tracking and leaderboard updates.
- Utilized **7+ RESTful API** endpoints, handling everything from registration/login to live score submission, leaderboard querying, and user stats.
- **Created real-time user and game statistics APIs**, including per-game rank calculations using SQL RANK() window functions and aggregate scoring.

Carpool Trips Matching System, Group project	**Nov 2024 – Jan 2025**

- A **Python** based & **Modular** Designed Algorithm based on **Greedy Algorithm,** makes it easier to maintain.
- Efficient sorting of trips in the CSV file with a time complexity of $O(n \log n)$.
- Used Data Structures such as **Lists** for sequential access and **Dictionaries** for fast insertion and waypoints lookups – complexity **O(1)**
- Communicated using HTTP requests with Google APIs such as Direction API and Distance Matrix API of accuracy **95%** and latency **100-500 ms** (compared to alternatives), also with a **real time** traffic detection.

Hangman Game – C++ Game, Group project	**May 2023 – Jun 2024**

- Utilized **C++ & Qt** framework to apply **OOP** concepts for upgraded code structure.
- **Led** a team of **6 students** and managed our project through GitHub.
- Enhanced performance thorough using **C++ STLs** and used **Sets** to reduce code **complexity.**

Honors & Awards

- Ranked **1st** at *CodeFest* among **50 Teams Competitive Programming** Contest 2024*.*
- Ranked **1st** at **TechFestival'25** among **30+** teams in **problem solving** contest
- Granted **100%** Scholarship in 2023 for academic achievement.
- Awarded **Bronze Medal** in International Youth Math Competition 2022 (top 25% among 5200 participants).

Extracurricular Activities

NU ICPC Community - Technical Mentor	**Nov 2024 – Present**

- Conducted weekly 2 sessions for explaining C++ Topics.
- Mentored **30+** students to compete at Egyptian Colligate Programming Contest – ECPC.

IEEE Nile University Student Branch - Technical Leader	**Seb 2024 – Present**

- Preparing **10+ teams** to compete in **Technology** hackathons and competitions.
- Organizing **5+** global and international **Conferences** related to IEEE chapters.