

# Saad Ahmed

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Islamabad, Pakistan

## SUMMARY

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Creative and results-driven computer science student with strong attention to detail. Seeking a **Software Engineer Intern** role to apply and enhance my technical skills, and contribute to innovative projects in a collaborative environment.

## EXPERIENCE

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**Laboratory Teaching Assistant** Aug 2024 – Dec 2024  
**FAST National University of Computer and Emerging Sciences** Islamabad, PK

- Assisted in delivering the *Data Structures (CL2001)* lab course for 60+ undergraduate students
- Evaluated classwork and provided one-on-one assistance in debugging and testing C++ code

## EDUCATION

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**Bachelor of Science (B.S.) in Computer Science** 2022 – 2027  
**FAST National University of Computer & Emerging Sciences** Islamabad

- Coursework: Data Structures, Object-Oriented Programming, Database Systems, Operating Systems, Artificial Intelligence, Design & Analysis of Algorithms, Computer Networks

**GCE A Level in Pre-Engineering** 2020 – 2022  
**Beaconhouse College Programme** Islamabad

- Coursework: Physics (A), Chemistry (A), Mathematics (B)

## PROJECTS

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### Website Optimisation

- Optimised content and meta tags, enhancing the site's UI and its adaptability for all screen sizes
- Cleaned the root directory, organising assets within specified folders
- Utilised version control with GitHub to integrate all updates into the original URL

### CoinWars

- Designed a GUI-based human vs computer maze game in C++ SFML
- Programmed battle logic and win conditions based on combat elimination
- Implemented an AVL tree-based scoreboard and a shortest-path algorithm for game mechanics

### Chess

- Collaboratively designed a two-player chess game in C++ for command-line interfaces
- Programmed game mechanics, move validation, and turn-based logic

### Portfolio Website

- Created a personal website using HTML and CSS to showcase my projects

## SKILLS

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**Computing Languages:** C/C++, HTML, CSS, Python, SQL

**Tools & Technologies:** GitHub, Ubuntu, Visual Studio, Visual Studio Code, Microsoft SQL Server

**Miscellaneous Skills:** Technical Writing, Attention to Detail, Teamwork