

# Shahan Ali

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## SUMMARY

Entry-level Computer Science professional with a strong proficiency in C++ and a solid foundation in Data Structures and Algorithms (DSA). With over 200 competitive programming problems solved and contributions to 10+ GitHub projects, I am eager to apply my skills to develop innovative and impactful solutions.

## EDUCATION

### Bachelors in Technology - Computer Science and Engineering

University of Petroleum and Energy Studies, Dehradun, Uttarakhand | 2025

- CGPA: 7.32
- Major: Graphics and Gaming
- Minor: Machine Learning

### Intermediate

SS Children's Academy, Moradabad, Uttar Pradesh | 2021

- Percentage: 67.80%
- Subjects: Physics, Chemistry, Mathematics

### High School

SS Children's Academy, Moradabad, Uttar Pradesh | 2019

- Percentage: 82.80%

## PROJECTS

### Snake Sensei 🔗

University of Petroleum and Energy Studies | Major Project

- Leveraging deep Q-learning to create a self-learning agent to play the classic Snake game, improving performance through trial and error.
- Utilized PyTorch to build a neural network that adapts to challenges in real-time, achieving a 30% reduction in collision rates.

### Shoot'n Shield 🔗

University of Petroleum and Energy Studies | Minor Project - 2

- Developed an endless 2D shooting game using Unity and C#, featuring dynamic gameplay across four distinct levels.
- Integrated adaptive level progression to enhance player experience.

### Mendeleev's Marvel 🔗

University of Petroleum and Energy Studies | Minor Project - 1

- Created an educational puzzle game using OpenGL and C++, focusing on teaching the periodicity of elements from the periodic table.
- Enhanced runtime performance by 5% compared to similar games developed using game engines.

### Question Sharing App 🔗

- Developed a classroom question-sharing application using Flutter and Dart.
- Enable teachers to create QR codes for questions and students to scan and answer them efficiently.

### Personal Portfolio 🔗

deployed.portfolio.github.io

- Personal portfolio to show my interests, skills, achievements etc.
- Used languages HTML, CSS, JavaScript and frameworks like Bootstrap.

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## SKILLS

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### Technical:

- Advance Data Structures
- Database Management System
- SQL
- C++ (Fluent)
- Algorithm design
- Unity Game Engine
- Selenium
- Python (Prior Experience)
- Object Oriented Programming
- Git / GitHub

### Soft Skills:

- Decision Making
- Time Management
- Leadership
- Critical Thinking
- Work Ethics

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## ACHIEVEMENTS AND CERTIFICATIONS

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### AWS Developer Associate

- Completed certification in May 2024 under CloudThat, an AWS Advanced Tier Training Partner.

### Leetcode

leetcode/shahanxali

- Maintaining an ongoing continuous streak of solving 120+ daily questions
- Batches: 3 Daily Medals (June, July, August) and 2 Competition Medals (50 days, 100 days)
- Questions solved: 70+ easy, 120+ Medium, 20+ Hard.

### HackerRank

hackerrank/shahanxali

- Gold Level in C
- Silver Level in Python
- Silver Level in Problem Solving
- Bronze Level in C++
- Earned 2881 Hackos to date

### National Scholarship Examination

All India Rank #813 in National Scholarship Exam - 2022, conducted by Eduno Technology Private Limited.

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## INTERNSHIPS

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### IBM

Online | June 2024 - July 2024

- Worked on Adaptive Difficulty Adjustment (ADA) for gaming tasks.
- Designed a 2D game using the Unity game engine under the mentorship of Phemsoft engineers.

### Social Internship

Anukulan NGO, Moradabad | June 2022 - July 2022

- Participated in community development activities and gained practical experience in social work..