AMAN PANDEY

Programming and Software Development Enthusiast
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EDUCATION

Indian Institute of Technology, Roorkee — *November 2020 - August 2024*
2nd Year, B.Tech in Engineering Physics — CGPA: 8.36/10

Central Hindu School, Varanasi — *2020*
Grade-12 — Overall score: 91.4%
Physics, Mathematics , Computer Science(C++), Chemistry

Jean Paul's High School, Ara — *2018*
Grade-10 — Overall Score 92.8%

SKILLS

Programming Languages: C#, C/C++, JavaScript, Julia, Python , MATLAB, HTML/CSS

Utilities : Unity Engine, Qiskit, Git, ReactJS, ThreeJS, Node.js, Jupyter Notebooks, Google Firebase , Vim, Linux

OS & Environments : Windows 11, Linux, VS Code, Visual Studio 2019

Competitive Programming: Codeforces : Highest Rating : 1451 Codechef : Highest Rating : 1819

PROJECTS

- **Global Game Jam:** Enemy's Aid
  - A 2D battle game in Unity Game Engine with three finite levels (implemented using a level loader class)
  - Used 2d Kinetic Solvers for animation, A* path-finding for enemy AI, finite state machine implementation in enemy and player states and a separate UI and Audio Manager Script
- **GitHub Game Off Jam:** Binary Bugs
  - A decimal to binary decoding puzzle game in Unity Game Engine
  - Used Linear Interpolation to set difficulty, along with script communication using delegates with proper UI and Sound Manager Scripts (Also, made a basic ladybug using Blender)
- **juliaAstro** [Open Source Contribution] :
  - An open source framework to implement astronomical methods in Julia
  - Relaxed Type restrictions on sunpos.jl, fixed sign for output of adstring.jl
- **Quantum Computing Group, IITR Website** Link
  - HTML, CSS based website with basic JS implementation

ACHIEVEMENTS

- Achieved 2778th rank (among 11k people) in Google Kick Start 2021 Round F
- Qualified Regional Mathematics Olympiad 2018, India
- Cleared Qualification Round for International Astronomy and Astrophysics Competition 2020

EXTRA CURRICULARS

- Project Developer at MDG Space, IITR Website
  - Involved in game development, coding lectures and events orgainsed by the group
- Member at Quantum Computing Group, IIT Roorkee
  - Involved in Projects, Lectures and Hackathon organised by the group
- Worked on simulation and theoretical analysis of Quantum Eraser for Physics and Astronomy Club, IITR