

# Abhibhav Om Tyagi

Adm. No. 21JE0015 9519556669

21je0015@iitism.ac.in tyagi.abhibhav@gmail.com

LinkedIn

Overpowering-Victorious



## Education

**Indian Institute of Technology (IIT-ISM) Dhanbad**

*Bachelor of Technology in Computer Science (GPA: 7.09 / 10.00)*

**Oxford Public School**

*Class 12th (83.4%)*

**Divine Public School**

*Class 10th (93.5%)*

December 2021 - Expected May 2025

*Dhanbad, Jharkhand*

April 2020 – March 2021

*Gorakhpur, Uttar Pradesh*

April 2018 – March 2019

*Gorakhpur, Uttar Pradesh*


## Projects

**Space War Game** | JavaScript, Phaser  

- Crafted a nostalgic old-school game with a retro vibe, offering an engaging and fun experience.
- Developed and engineered the game using JavaScript and the Phaser framework and optimized game performance to handle up to 50+ concurrent in-game objects smoothly.
- Integrated advanced features like physics, sprites, preloader, groups, animations, input controls, sound effects, and a high-score display.

**Segment Tree Visualiser** | Java 

- Developed a desktop application in Java to visualize Segment Tree construction and queries (10+ size array).
- Implemented interactive animations for operations like Sum, Max, Min, and XOR on user-provided arrays.

**Write-Out Application** | Java, XML, Firebase 

- Built a basic Android application using Java for the back-end and XML for the front-end.
- Integrated Firebase Authentication and Database for secure, real-time data management, supporting 10000+ users.
- Enabled users to create, store, and share articles/notes on a cloud database with access to 100+ shared user entries.


## Technical Skills

**Languages:** C, C++, Java, HTML, CSS, JavaScript, SQL.


**Database and Utilities/Tools:** MariaDB, VS Code, Sublime Text, Phaser, Android Studio, Firebase.

**Courses:** Data Structures, Algorithm Design and Analysis, Graph Algorithms, Database Management System, Object Oriented Programming, Operating System, Computer Networks.


## Achievements

**CodeForces** | *Specialist (Max 1460)*  tyagi\_2512


- **Global Rank 748** in Codeforces Round 964 among 30000+ participants.
- **Global Rank 1353** in Codeforces Round 945 among 15300+ participants.

**LeetCode** | *Knight (Max 1946)*  tyagi\_2512

- **Global Rank 1346** in Biweekly Contest 140 among 35900+ participants.
- **Global Rank 1673** in Weekly Contest 392 among 31000+ participants.

**CodeChef** | *3-Star (Max 1692)*  tyagi\_2512

- **Global Rank 28** in CodeChef Starters 93 Division 3 among 3780+ participants.
- **Global Rank 292** in CodeChef Starters 153 Division 2 among 1800+ participants.

**AtCoder** | *7 Kyu (Max 673)*  tyagi\_2512

- **Global Rank 1877** in AtCoder Beginner Contest 309 among 8460+ participants.
- **Solved around 1500+** problems across different coding platforms.

## Social Engagements

**Volunteer:** at KARTAVYA - NGO run by students of IIT Dhanbad to educate underprivileged childrens (around 250+).

**Operations and Logistic Team:** Prakash'24 (Kartavya Annual Event).