

Ridham Kumar

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Portfolio: [Ridham/git/Portfolio](#)



Education

Guru Nanak Dev University

Bachelor of Technology- Computer Science and Engineering

Amritsar, Punjab, India

2021-2025

The Senior Scholars School, Pathankot

Grade 12; Non-Medical

Pathankot, Punjab, India

2020-2021

The Senior Scholars School, Pathankot

Grade 10

Pathankot, Punjab, India

2018-2019

Technical Skills

- **Programming Language:** Java
- **Frontend:** HTML | CSS
- **Database management:** SQL
- **Collaboration Tools:** VS Code
- **Version control:** Git

Soft Skills

- Problem solving
- Multi-tasking
- Adaptability
- Teamwork
- Leadership
- Communication

Projects

Metro-Navigator || Core Java Project

Developed a Java based application to calculate the shortest route and time traveled among metro stations, with optimization algorithms that led up to 15% gain of efficiency. It also offers features such as the list of stations, the map of metro with distance & time based on optimal route.

SecurePass Generator || Java Project (Concepts of OOP)

Developed a SecurePass Generator in Java, using concepts of OOP and java libraries. Addressing the real-world problem of password breaching. SecurePass can create a Highly secure password with customizable length. resulting in a 40% reduction in password guessing attempts and a 60% improvement in overall security.

SmartSudokuSolver || Java Project

Created a game solver using core java highlighting the concept of Backtracking and optimized algorithms to guarantee a solution for solvable puzzles 20% faster. also has a time-tracking feature that display duration needed to solve each puzzle.

Certifications

- Advanced Data Structures and Algorithm in Java

Co-Curricular

Member of Design Team (CESS)

District level Bronze Medalist in Boxing.