

# Ridham Kumar

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



## Education

### Guru Nanak Dev University

Bachelor of Technology- Computer Science: ( CGPA-7.12 )

Amritsar, Punjab, India

2021-2025

### The Senior Scholars School, Pathankot

Pathankot, Punjab, India

Grade 12; non-medical

2020-2021

### The Senior Scholars School, Pathankot

Pathankot, Punjab, India

Grade 10

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**

## 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 Medallist in Boxing