

# Ridham Kumar

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## ACADEMIC PROJECTS

### Metro-Navigator || Core Java Project

[GitHub Link](#)

- Developed a Java application for calculating the shortest route and travel time between metro stations, achieving up to a 15% improvement in efficiency through optimization algorithms
- Integrated features like station lists and a metro map displaying distance and travel time for the optimal route, enhancing user navigation and trip planning.

### SecurePass Generator || Java Project(Concepts of OOP)

[GitHub Link](#)

- Developed *SecurePass Generator* in Java using OOP concepts and Java libraries to address password security issues.
- Enabled users to generate highly secure passwords with customizable lengths.
- Achieved a 40% reduction in password guessing attempts and a 60% improvement in overall security.

### SmartSudokuSolver || Java Project

[GitHub Link](#)

- Developed a game solver in core Java that utilizes backtracking and optimized algorithms, achieving 20% faster solutions for solvable puzzles.
- Integrated a time-tracking feature to display the duration of each puzzle's solution, enhancing performance insights for users.

### Portfolio Website || Front-end Project

[GitHub Link](#)

- Developed a dynamic portfolio website to showcase technical skills, projects, and achievements, highlighting expertise in web development and design. .

**Programming Languages:** Java ,C++, C

**Frontend:** HTML, CSS, Tailwind CSS

**Collaboration Tools:** VS Code, IntelliJ IDEA

## Education

**B.Tech Computer Science Engineering** Guru Nanak Dev University, Amritsar

CGPA: 7.1 | (2021-2025)

**XII** The Senior Scholars School, Pathankot

(2020-2021)

## COURSEWORK

Data Structures & Algorithms	Theory of Computation	Operating Systems
System Analysis and Design	Object Oriented Programming	Database Management System

## ACHIEVEMENTS AND CERTIFICATIONS

Achieved **95.44** percentile in the Naukri Young Turks Contest

[Certificate](#)

Java Course from DevTown

[Certificate](#)

Completed C++ Course from DevTown

[Certificate](#)

Intra-school boxing bronze medalist

(june 2019)

## POSITION OF RESPONSIBILITY

**Tech Team Member| CESS(Computer Engineering Student Society)**

(2021-2023)

Organized various events like hackathons and cultural events.