

BHAVAY SINGLA

+91 7807801178 | bhavaysingla2006@gmail.com | New Delhi, India

[GitHub](#) | [LeetCode](#) | [LinkedIn](#)

EDUCATION

Bachelor of Computer Science, Delhi Technological University Expected 2027
CGPA: **9.40**

Intermediate (Class XII), Government Model Senior Secondary School, Chandigarh (CBSE) 2021 - 2023
Aggregate: **93.6%**

Matriculate (Class X), St. Stephen's School, Chandigarh (ICSE) 2011 - 2021
Aggregate: **95%**

TECHNICAL SKILLS

Programming Languages:	C/C++, Python, HTML, CSS, JavaScript
Databases:	MongoDB, MySQL
Frameworks & Libraries:	React.js, Node.js, Express.js, Socket.IO
Developer Tools:	Git, GitHub, VS Code, Vercel, Render
Coursework:	Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming

ACHIEVEMENTS

- Ranked **2795** in JEE Advanced and **4662** in JEE Mains.
- Achieved a cumulative SGPA of **9.92** in 3rd semester and **9.82** in 4th semester.
- Achieved Department Rank **21** among 500 Computer Science students at Delhi Technological University.
- Completed **400+** Data Structures & Algorithms problems on LeetCode.

PROJECTS

Teacher Dashboard — | [Live Demo](#) | **Full-Stack Development** | **React** | **Express.js** | **MongoDB**

- Built a full-stack web application inspired by Google Classroom, enabling teachers to manage classes, assignments, and study materials for over **60+ students**.
- Designed and integrated RESTful APIs with MongoDB to handle **1,000+ records** efficiently, achieving response times under **200ms**.
- Deployed front-end (Vercel) and back-end (Render) with CI/CD pipelines, ensuring **99% reliability** and reducing deployment time by **40%**.

Codeverse — | [Live Demo](#) | **Real-Time Collaboration** | **React** | **Socket.IO** | **Node.js**

- Built a collaborative code editor with support for **C++, Java, Python, and JavaScript**, enabling live multi-user coding sessions.
- Engineered scalable WebSocket architecture handling **990+ concurrent users** and **45,000+ live code edits per minute**, with instant synchronization and typing indicators.
- Integrated remote code execution via Piston API, supporting **200+ code runs per session** with **99% uptime** for a reliable multi-user coding experience.

Pathfinder Visualizer — | [Live Demo](#) | **Front-End Development** | **React** | **CSS**

- Developed an interactive Dijkstra's algorithm visualizer on a **50x20 grid** with intuitive drag-and-drop node and wall placement, reducing repositioning time to **<1s per action**.
- Implemented smooth traversal and shortest-path animations across **1,000+ nodes** in **under 15s**, with reset functionality for enhanced usability.

LEADERSHIP & ACTIVITIES

- Class Representative (CSE-2, DTU): Represented 60+ peers; improved academic communication with faculty.
- NCC Cadet (DTU): Led and coordinated drills with 90+ cadets, fostering teamwork and discipline.
- Google Developer Student Club (GDSC - DTU): Conducted web development workshops and study jams for 100+ students.