Balkaran Singh

Personal Portfolio

Ropar, Punjab

└ +91-6239534216 ■ balkaran0076@gmail.com in Linkedin • My Github profile

Education

Dr. B.R. Ambedkar National Institute of Technology, Jalandhar

Aug 2023 - Present Jalandhar, Punjab

Bachelor of Technology in Computer Science, CGPA: 8.52

2021 - 2023

Shri Guru Ram Rai Sen Sec School, Ropar Senior Secondary Education, Percentage: 94.4%

Ropar, Punjab

Shri Guru Ram Rai Sen Sec School, Ropar

2019 - 2021

Higher School Education, Percentage: 92%

Ropar, Punjab

Projects

Fluento - Connect and Speak | ReactJS, TailwindCSS, ExpressJS, NodeJS, DaisyUI

GitHub May 2025

- Built a full-stack MERN language exchange real time chat platform with 7+ pages (onboarding, home, chat, video call, notifications) and 4 user states (auth, onboarding, active, connected), a 3-tier friend system (pending/accepted/rejected) with real-time updates.
- Implemented real-time chat and HD video calls using Stream.io APIs, supporting unlimited sessions and 1080p quality. Secured with JWT auth and 5+ responsive breakpoints for seamless mobile-to-desktop experience.
- Developed a mobile-first UI with theme and avatar customization, using 32+ DaisyUI themes and 7-style DiceBear avatars (200×200px), a 3-level component structure (Layout, Sidebar, Navbar) with per-button loading states.

Shrinkster | ReactJS, MongoDB, NodeJS, Express, Tanstack, Redux Toolkit

GitHub March 2025

- Architected a modern, user-focused URL shortener with guest/auth modes, custom slugs, real-time click analytics, and 15+ REST APIs with error handling, achieving sub-200ms response times.
- Engineered a secure Node.js/Express backend with JWT auth, bcrypt hashing, and MongoDB Atlas, ensuring 99.9% uptime and 5+ middleware layers for robust data protection.
- Designed responsive React frontend with Redux Toolkit state management, TanStack Query for data fetching, and Tailwind CSS styling, delivering 40+ reusable components with smooth animations.

Dijkstagram | C++, HTML/CSS, React, Node.js, Express.js, JavaScript

GitHub Jan 2025

- Constructed a Dijkstra visualizer with 25×55 grid, real-time path animation, drag-and-drop walls, and step-by-step highlighting to enhance algorithm learning.
- Created a full-stack app with React frontend and Node.js backend, integrating a live C++ editor for real-time algorithm execution across a 3-page responsive layout.
- Refined a responsive UI with modern design patterns and accessibility standards with 50+ reusable CSS components, dark/light theme toggle, and support for 768px+ breakpoints.

Technical Skills

Languages: C, C++, Python, JavaScript, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express.js, Tailwind CSS, Redux Toolkit, DaisyUI, TanStack Query

Databases & Tools: MongoDB, MySQL, Git, GitHub, VS Code, JWT Authentication, Cloudinary

Relevant Coursework

• Data Structures & Algorithms

- Object Oriented Programming
- Database Management Systems
- Computer Networks

Coding Profiles

LeetCode — My Leetcode coding Profile

Solved 700+ problems on algorithms and data structures with 1750+ max rating.

Coding Ninjas — My coding ninjas profile

Solved 100+ problems with 30+ badges in DSA core topics.

GeeksforGeeks — My GFG coding profile

Solved 100+ practice problems with under 850 institute rank.