

# SAHIL MADAAN

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## Education

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### National Institute of Technology Srinagar, J&K

Bachelor of Technology in Computer Science & Engineering

Overall CGPA: 9.63

August 2023 – August 2027

till 5th sem

## Projects

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### Fnky – Functional Programming Language Interpreter (Rust) GitHub

- Designed and implemented a lightweight functional language with fn as the core execution primitive.
- Built in Rust to ensure high performance, memory safety, and concurrency guarantees.
- Structured the interpreter modularly to support clean semantics and future extensions.

### Coderhouse – Real-Time Audio Rooms (React, WebRTC, Node.js) GitHub

- Built a Clubhouse-inspired real-time audio platform using peer-to-peer WebRTC streams.
- Implemented OTP-based authentication, live room creation/joining, and mic controls.
- Designed a scalable signaling layer with Socket.IO and Node.js for room and peer management.

### CodeCommerce – E-Commerce Platform (MERN Stack) GitHub

- Developed a full-stack e-commerce application using MongoDB, Express, React, and Node.js.
- Implemented secure authentication and authorization using JWT, bcrypt, and HTTP cookies.
- Built RESTful APIs with Express and Mongoose and enabled concurrent frontend-backend development.

## Experience

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### Backend Developer Intern

July 2025 – September 2025

Medino's (Remote)

- Integrated **CSV upload functionality** for managing pharmacy orders by retailer pharmacies.
- Simulated and integrated the **order complaints propagation workflow**, ensuring smooth transitions across different stages of development.
- Optimized backend dependencies to help **reduce app size from 67 MB to 55 MB**, improving performance and efficiency.
- Collaborated with the **frontend team** to resolve issues during testing and ensured smooth deployment before making features live in production.
- Used **Git/GitHub** for version control, branching, and documentation.

## Technical Skills

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**Languages:** C, C++, Rust, JavaScript, TypeScript, React, HTML5, CSS3

**Frameworks:** NestJs, Node.js, Express.js, Tailwind CSS, React.js, Next.js

**Developer Tools:** Git, VS Code, Bash, GitHub Neovim, Sublime Text, Unity

**Databases:** MongoDB, MySQL, PostgreSQL

**Soft Skills:** Problem-Solving, Analytical Thinking, Team Collaboration, Communication Skills

## Subjects

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Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Operating System.

## Interests

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Full-Stack Development, Competitive Programming, Systems Programming, Open Source Contribution, Machine Learning, Artificial Intelligence

## Achievements

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- Expert on Codeforces (Max Rating 1629).
- Knight on LeetCode (Max Rating 2002).
- Secured **2nd Rank** in IUST Hackathon for problem-solving.
- ICPC Preliminary Round Rank: **463**.
- **ICPC Regionalist** at ICPC Amritapuri (Kollam Campus).