Soham Khatavkar

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Education

Visvesvaraya National Institute of Technology Nagpur July 2021 – May 2025
B.Tech in Computer Science and Engineering - CGPA: 8.32/10.0 *Nagpur, Maharashtra*

Indian Institute of Technology Bombay July 2025 – May 2027
M.Tech in Computer Science *Mumbai, Maharashtra*

Projects

sIDE+ | *MongoDB, ExpressJS, ReactJS, NodeJS, Azure VM, Docker* Demo | Frontend | Backend
- Created an **online code execution platform** supporting C, C++, Java, Python, and JavaScript with a rich code editor interface.
- Integrated **Docker-based isolated execution environments** with features like **execution time limits** to enhance security.
- Integrated features such as **auto-save**, **auto-completion**, and **code-share** to enhance the user experience.
- Deployed on a scalable and reliable **Azure Virtual Machine**, enabling efficient remote code execution.

Globe Trotters | *MongoDB, ExpressJS, ReactJS, NodeJS, Cloudinary* Demo | Frontend | Backend
- Developed a vibrant travel blog platform enabling users to share experiences through **multimedia blogs**.
- Implemented secure authentication using JWT and bcrypt, with full-text search powered by MongoDB indexing.
- Integrated **ReactPlayer** for media playback and **ReactQuill** for rich-text blog composition.

Simon Game | *MongoDB, ExpressJS, ReactJS, NodeJS* Demo | Frontend | Backend
- Built a web version of the classic Simon memory game where players repeat sequences of tones and lights.
- Developed using **ReactJS**, with **ExpressJS** handling server logic and **MongoDB** for data storage.
- Implemented local score tracking and global ranking to enable competition with past performances and other users.

Setris | *C++, Raylib, Make* Demo | GitHub
- Developed a custom implementation of **Tetris** in **C++**, enabling players to fully customize gameplay rules such as speed, block shapes, and drop behavior.
- Built with a fully modular architecture leveraging core **Object-Oriented Programming (OOP)** principles for scalability and maintainability.
- Deployed as a web demo by integrating **C++** logic with a **ReactJS** frontend using **WebAssembly** for smooth in-browser execution.

Achievements

Microland Smart Infra Hackathon - Winner October 2024
- Developed a full-stack AI-powered health chatbot as part of a company-sponsored hackathon.
- Handled **backend development**, **deployment** and coordinated **project integration** to ensure smooth collaboration.
- Performance in the hackathon led to a **full-time job offer** from **Microland** as a *Software Developer*.

Technical Skills

Languages: C, C++, JavaScript, SQL
Web Development: HTML, CSS, ReactJS, NodeJS, ExpressJS, REST APIs
Databases: MongoDB, MySQL
Tools & Platforms: Docker, Make, Cloudinary, Azure Virtual Machines, Render, Git, GitHub

Relevant Coursework

- Data Structures
- Operating Systems
- Computer Networks
- Database Management
- OOP
- Algorithms
- Computer Architecture
- Software Engineering