**Sneha Bichkunde ** +91-8180967704

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Information and Technology [](https://github.com/snehabichkunde) [GitHub Profile](https://github.com/snehabichkunde)

SGGSIET, Nanded [](https://www.linkedin.com/in/sneha-bichkunde-aba203269/) [LinkedIn Profile](https://www.linkedin.com/in/sneha-bichkunde-aba203269/)

# EDucation

* **Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded** *CGPA: 8.3 Bachelor of Technology in Information Technology* 2022 - Present
* **Sant Tukaram National Model School, Latur** *Percentage: 88.8% Higher Secondary Certificate (HSC)* 2021
* **Lal Bahadur Shastri Vidhyalaya, Udgir** *Percentage: 92.40% Secondary School Certificate (SSC)* 2019

# Personal Projects

## Digital Diary

*Developed a full-stack diary application using React.js, Node.js, Express.js, and MongoDB.*

### Tools & Technologies: React.js, Node.js, Express.js, MongoDB, JWT

* + -0.5mm Implemented JWT authentication for secure user login and personalized story management

### Deployed the frontend on Netlify and the backend on Render, ensuring seamless performance

* + -0.5mm **Key Achievements:** Enhanced user experience with smooth authentication and data encryption, improving security and reliability

**Live Demo:** [Digital Diary](https://digital-diary-sneha.netlify.app/) **| GitHub:** [Repo](https://github.com/snehabichkunde/DigitalDiary)

## my\_shell - A POSIX-Compliant Shell

*Built a custom shell in C with support for built-in commands and keyboard shortcuts.*

### Designed an interactive REPL: Used ncurses to enhance the terminal experience

* + -0.5mm Implemented command history, navigation, and process control for a user-friendly workflow

**GitHub:** [Repo](https://github.com/snehabichkunde/c-shell)

## Boids Flocking with Quadtree Optimization

*Developed a Boids flocking simulation using p5.js, incorporating alignment, cohesion, and separation rules.*

### Optimized Neighbor Searching: Implemented a Quadtree data structure, reducing complexity from O(n²) to O(n log n)

* + -0.5mm Enhanced simulation efficiency by structuring space hierarchically, improving real-time performance

**Live Demo:** [Demo](https://snehabichkunde.github.io/Flocking-Simulation-using-Quadtree/) **| GitHub:** [Repo](https://github.com/snehabichkunde/Flocking-Simulation-using-Quadtree)

# Technical Skills anD Interests

**Languages**: C, C++, JavaScript

**Developer Tools**: Git, GitHub, Docker, VS Code, Bash, GDB, Makefile

**Frameworks**: Node.js, Express.js, React.js, Socket.io

**Cloud/Databases**: MongoDB, MySQL

**Soft Skills**: Problem-solving, Teamwork, Communication, Time Management

**Coursework**: Operating Systems, Data Structures Algorithms, DBMS, Computer Networks, Computer Algorithms

**Areas of Interest**: Backend Development, System Programming, Distributed Systems, Virtualization, Compiler Design

# Positions of responsibility

* **Secretary:** Bhaskaracharya Maths Club *Current*
* **Member:** SGGS Web App Game Developers Club *2022 - 2023*

# Achievements

* **Solved 500+ DSA Problems**On platforms like GeeksforGeeks and LeetCode *Ongoing*
* **GeeksforGeeks Profile:** [bichkund5ad6](https://www.geeksforgeeks.org/user/bichkund5ad6/)
* **LeetCode Profile:** [SnehaBichkunde](https://leetcode.com/u/SnehaBichkunde/)