Sneha Bichkunde

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IT student skilled in full-stack development, system programming, and algorithm optimization. Passionate about efficient software solutions.

Education

- **Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded** *CGPA: 8.3/10*
  B.Tech, Information Technology 2022–2026
  – Relevant Coursework: Operating Systems, Data Structures & Algorithms, DBMS, Computer Networks, OOP

- **Sant Tukaram National Model School, Latur (HSC) | Lal Bahadur Shastri Vidyalaya, Udgir (SSC)**
  HSC: 88.8% | SSC: 92.4% 2021 | 2019

Projects

- **Digital Diary** (GitHub, Demo) *2024*
  Full-stack web app using React.js, Node.js, Express.js, MongoDB for secure story storage
  – Implemented JWT authentication and bcrypt hashing for robust security
  – Deployed on Netlify/Render, handling 100+ concurrent users with 99.9% uptime
  – Designed RESTful APIs for efficient CRUD operations

- **my_shell** (GitHub) *2023*
  POSIX-compliant shell in C with interactive REPL, command history, process management
  – Used ncurses for enhanced terminal navigation and user experience
  – Implemented signal handling for reliable command execution

- **Boids Flocking Simulation** (GitHub, Demo) *2023*
  Flocking simulation in p5.js, optimized with Quadtree for neighbor detection
  – Reduced complexity from $O(n^2)$ to $O(n \log n)$ using Quadtree
  – Enabled real-time rendering of 100+ boids on standard hardware

Skills

- **Languages**: C, C++, JavaScript, Python
- **Frameworks/Libraries**: React.js, Node.js, Express.js, p5.js
- **Tools/Technologies**: Git, Docker, VS Code, Bash, GDB, Linux
- **Databases**: MongoDB, MySQL
- **Concepts**: Data Structures, Algorithms, RESTful APIs, System Programming

Achievements

- **Competitive Programming** *2022–Present*
  Solved 500+ problems on LeetCode (SnehaBichkunde) and GeeksforGeeks (bichkund5ad6)
- **National-Level Math Quiz Competition** *2023*
  Winner, [Math-E-Magic], National-Level Math Quiz: Secured 1st place among 200+ participants

Leadership & Extracurricular

- **Secretary, Bhaskaracharya Maths Club** *2024–Present*
  Organized 'Mathemagic,' a national math competition with 200+ participants; mentored 15+ students
- **Member, SGGS Web App Game Developers Club** *2022–2023*
  Co-organized a 36-hour hackathon for 50+ participants; built event website with React.js

Interests

- Backend Development, System Programming, Distributed Systems, Algorithm Optimization