

Sejal Sinha

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ABOUT ME

Self-driven and results-oriented engineering student with a strong foundation in full-stack development and applied AI. Skilled at tackling complex technical challenges, leading teams, and continuously learning to improve solutions that make real-world impact.

EDUCATION

- **BMS College of Engineering, Bangalore** 2026
Bachelor of Technology in Information Science and Engineering CGPA: 9.56/10
- **ASC PU COLLEGE** 2022
Board of Secondary Education, Karnataka State Percentage: 96

EXPERIENCE

- **Samsung Prism** April - Current
R&D Intern Bangalore
 - Designing and implementing a multi-agent financial analytics system in Python, enabling interoperability and reducing latency and error rates via an Agent-to-Agent (A2A) protocol and MCP integration
 - Building workflows and benchmarking tools to evaluate collaboration efficiency and prepare for scalable deployment.

PROJECTS

- **ClassBuddy - Your Academic Companion** *MERN Stack, JWT, Tailwind CSS* [Source Code](#)
 - Developed a role-based full-stack dashboard for class schedules, reminders, and announcements using React, Node.js, MongoDB, and JWT authentication.
 - Implemented secure API routes, dynamic data rendering, and responsive UI with real-time analytics for faculty and students.
- **EmoSense - Realtime Multilingual Emotion Detection** *Flask, MERN, Hugging Face* [Source Code](#)
 - Integrated Wav2Vec2 and DistilBERT models to build a real-time multilingual emotion detector via speech and text inputs, achieving 89.8% accuracy.
 - Deployed Flask-based API with React frontend for live sentiment inference, optimized for low latency and multi-language support.
- **ChatSecure – Encrypted Socket-Based Chat App** *Python, Sockets, RSA, Tkinter* [Source Code](#)
 - Built a secure multi-client chat app using raw TCP sockets, RSA encryption, and multithreading, with user-controlled file sharing
 - Enabled 10+ concurrent users with < 50ms latency and designed a Tkinter GUI with login/session control, active user listing, and a custom file rejection protocol for safe communication.

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Python, Java, C, JavaScript

Frontend: HTML, CSS, React, Next

Backend: Node.js, Express.js, REST APIs, MongoDB, Git

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Operating Systems, Database Management Systems, Full Stack Development, Cloud Computing

POSITIONS OF RESPONSIBILITY

- **Class Representative, BMSCE, Bangalore** 2023-2026
(Coordinating between students and faculty for academic and administrative communication, Karnataka)
- **Maths Teacher, U&I, Bangalore** 2024-2026
(Non-profit organization founded by U&I to educate underprivileged children in Bangalore, Karnataka)
- **Chess Captain, BMSCE, Bangalore** 2025-2026
(Led college chess team for tournaments and mentored juniors at BMSCE, Karnataka)

ACHIEVEMENTS

- **Top 10 Finalist, AIverse Hackathon (National Level, 72hr)** March 2025
- **Top 5 Finalist, CodeCrux Hackathon (Intercollegiate)** October 2024