

SINCHANASK

Software Engineer | Python, Java, Data Structures & Algorithms, Backend Systems

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PROFESSIONAL SUMMARY

Final-year CSE student focused on backend systems and data structures. Built a concurrency-safe booking backend using row-level locking and an AI-assisted assessment API with a two-stage NLP and LLM pipeline

TECHNICAL SKILL

- **Core CS (Coursework)** : Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks
- **Languages**: Python, Java, SQL
- **Backend & Databases**: Flask, FastAPI, REST APIs, PostgreSQL, SQLite, SQLAlchemy
- **Concepts**: Concurrency Control, Transaction Management, NLP, LLM Integration
- **Tools** : Git, GitHub, VS Code

PROJECTS

1. AI-Assisted Psychiatric Assessment Tool | React, Vite, Tailwind CSS, FastAPI | 2026

- Built a FastAPI backend with four REST endpoints to analyse clinical notes, re-assess cases, retrieve records, and generate PDF reports, storing cases in SQLite via SQLAlchemy.
- Designed a two-stage pipeline where scispaCy and negspaCy extract symptoms and detect negation, and a Groq-hosted LLM maps findings to DSM-5 and ICD-11 criteria.

2. High-Concurrency Resource Reservation Backend | Python, Flask, PostgreSQL | 2026 (In progress)

- Built a Flask and PostgreSQL backend that handles concurrent booking requests and prevents double-booking.
- Implemented row-level locking (SELECT FOR UPDATE) and transaction isolation to resolve race conditions when simultaneous booking requests target the same resource.

3. BreedTrack | Smart Livestock Breeding & Health Network | Python, Flask, Redis | 2026 | NAIN 2.0 Funded Startup Project

- Built a modular Flask backend with RESTful endpoints to manage Role-Based Access Control (RBAC) across four distinct user ecosystems (Farmers, AI Technicians, Vet Doctors, and Admins).
- Engineered an offline-first sync framework with Redis caching and PostgreSQL, integrated with a 15 km radius GPS auto-dispatch engine for low-connectivity zones.

EDUCATION

- **B.E. in Computer Science & Engineering** | Government Engineering College, Hassan, Karnataka | CGPA 8.71 | Expected 2027

WORK EXPERIENCE

1. Software Engineering Intern (Virtual), Infosys Springboard | Nov 2025 – Jan 2026 | [Certificate Link](#)

- Completed the mandatory assignment for Infosys Springboard Virtual Internship 6.0, a team project building a Crypto Portfolio Manager.

2. Research Intern, VLSI Technology | April 2026

- Reviewed existing systems and proposed a solution, documenting the findings in a written research report.

ACHIEVEMENTS & CERTIFICATIONS

- **Hackathons**: 2nd Prize, GEC Hassan Hackathon 2025
- **Certifications**: TCS Youth Employment Program, TCS Empowers | March 2026 | [Certificate Link](#)