SREENATH G

Backend-Focused Full-Stack Developer

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SUMMARY

Second-year B.Tech IT student with strong hands-on experience in backend and full-stack development. Built and deployed real-world systems using FastAPI, Flask, PostgreSQL, and React. Comfortable working with APIs, databases, authentication flows, and Linux-based development environment. Actively exploring applied ML and computer vision through production-style projects.

EDUCATION

B.Tech in Information Technology
SSN College of Engineering — *2024–2028*

TECHNICAL SKILLS

- **Languages:** Python, C, JavaScript, Java
- **Backend:** FastAPI, Flask, REST APIs
- **Frontend:** HTML, CSS, Bootstrap, React
- **Databases:** PostgreSQL, SQLite
- **ML / CV:** OpenCV, YOLO (v8 model used), Real-time inference
- **Tools:** Git, GitHub, VS Code
- **Platforms:** Linux (Ubuntu), Windows
- **Deployment:** Render, Vercel (Cloud)

PROJECTS

E-Scooter Management System (Team Project) — FastAPI, React, PostgreSQL (Deployed)

- Designed and implemented REST APIs and backend business logic using FastAPI and PostgreSQL.
- Handled core data models, request validation, and backend workflows for scooter management and bookings.
- Contributed to frontend design and API integration using React.

Complaint Management System — Flask, PostgreSQL, Bootstrap

- Designed and developed a role-based complaint management system with admin, staff, and user workflows.
- Implemented complaint lifecycle tracking with status updates, timestamps, and database persistence.
- Built backend logic using Flask and PostgreSQL with a responsive Bootstrap-based UI.

Real-Time Crack Detection System — Machine Learning, Computer Vision

- Developed a real-time crack detection system using computer vision and ML models for live video streams.
- Implemented frame-wise detection with bounding box visualization for cracks in infrastructure surfaces.
- Focused on real-time performance and accurate detection in practical scenarios.

Table Reservation System — C, Apache CGI

- Built a backend-driven restaurant table reservation system using C and Apache CGI.
- Implemented linked lists and queue-based scheduling to manage reservations efficiently.
- Integrated system-level backend logic with a web-based user interface.

Weather Application — Flask, Third-Party APIs

- Developed and deployed a weather application using Flask and external APIs.
- Handled API requests, response parsing, and real-time weather data rendering.

CERTIFICATIONS

- Agentic AI contest certification (July 2025)
- Web Development — CodSoft (June 2025)
- Full-Stack Web Development (Java) — DevTown (December 2024)