SUNIL KUMAR P

sunilp2713@gmail.com | +91 6361880110

Linkedin | **GitHub** | **LeetCode**

EDUCATION

PES University [Ring Road Campus]   Bengaluru, India
Degree in B.Tech Computer Science and Engineering   2022 - Present
CGPA: 8.44

Seshadripuram Composite PU College   Bengaluru, India
Degree in Degree in 12th grade   2020 - 2022
Percentage: 98.33%

Raja Rajeshwari English School   Bengaluru, India
Degree in Degree in 10th grade   2019 - 2020
Percentage: 96.16%

EXPERIENCE

C-ISFCR | Summer Intern   Bengaluru, India | June 2025 - July 2025
- Developed a hybrid BERT-BiLSTM machine learning model for real-time detection of NoSQL injection attacks in user input data.
- Designed and implemented a session hijacking prevention mechanism using device fingerprinting and IP address validation.
- Integrated and tested the complete security system within a containerized microservices-based web application.

SKILLS

Programming Languages:	Java, C, Python
Libraries/Frameworks:	javascript, Servlets, Spring Boot, React
Tools / Platforms:	Git, VS Code, IVerilog, Aurdino IDE
Databases:	MySQL, MongoDB

PROJECTS / OPEN-SOURCE

Smart Restaurant System | Link   *Aurdino IDE*
- Developed an automated Restaurant Management System that streamlines order-taking using an RF transmitter and receiver circuit.
- Built and programmed a line-following robot to deliver dishes to respective tables by tracking a predefined black line path.

Tourism Management System   *Java, Servlets, HTML*
- Developed a web-based Tourism Management System that allows users to book tourist spots and submit reviews online.
- Built the backend using Java Servlets to manage server-side logic and enable dynamic web interactions.

Social Media Platform | Link   *C*
- Designed and developed a social media platform in C using graph data structures to manage user relationships efficiently.
- Implemented key features including profile creation, follow requests with accept/reject options, and mutual follower identification.

Restaurant Management System   *Java, Spring Boot, JSP*
- Developed a full-stack Restaurant Management System using Java and Spring Boot with a scalable, modular architecture.
- Applied four core design principles/patterns and implemented automated order processing and robotic delivery logic.

Distributed Cluster Framework | Link   *Docker, Python, Flask*
- Built a distributed cluster simulation framework using Flask, Docker, and Python, featuring node registration, heartbeat monitoring, and pod scheduling via RESTful APIs.
- Developed CLI-based client and node simulators, and containerized the entire system for seamless deployment and testing in a microservices-like environment.

HONORS & AWARDS

- Participated in HAL Aerothon Hackathon, contributing to a digital twin project focused on the fuel injection system of Bendix and FADEC engines.